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Skeena River Salmon Test Fishery, 1987

L. Jantz, R. Kadowaki and B. Spilsted

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April 1990

Canadian Data Report of
Fisheries and Aquatic Sciences No. 804

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ABSTRACT.

Jantz, L., R. Kadowaki and B. Spilsted, 1990. Skeena River Salmon Test Fishery, 1987. Can. Data Rep. Fish. Aquat. Sci. 804: iv + 151p.

Information relating to the Skeena River gillnet test fishery program for 1987 and a summary for the years 1955 to 1976 is presented in this report. Daily catch of all salmon species (Oncorhynchus sp.) and steelhead trout (Salmo gairdneri) are detailed by set along with age, sex, and length data.

Fishing dates, set times, actual fishing times and tide cycle information are presented. Daily index (catch per hour) calculations are tabulated for all salmon species and steelhead trout. Daily, weekly and cumulative escapement estimates for sockeye and pink salmon are also provided.

RÉSUMÉ.

Jantz, L., R. Kadowaki and B. Spilsted, 1990. Skeena River Salmon Test Fishery, 1987. Can. Data Rep. Fish. Aquat. Sci. 804: iv + 151p.

Ce rapport contient des donneés fournies par le Programme des pêches expérimentales au filet maillant pour l'année 1987 ainsi qu'une récapitulation portant sur les années 1955 à 1976. Les prises quotidiennes de toutes les espèces de saumons (Oncorhynchus) et de truite arc-en-ciel (Salmo gairdneri) sont données pour chaque immersion de filet, avec l'âge, le sexe et la longueur des poissons.

Le rapport indique les dates, les heures des immersions de filet, la durée précise de la pêche et le cycle des marées. Un tableau quotidien des prises (par heure) est établi pour toutes les espèces de saumons et pour la truite arc-en-ciel. Le rapport fournit aussi une évaluation quotidienne, hebdomadaire et cumulative du nombre de saumons sockeye et de saumons roses qui ont échappé au filet.

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1.0 INTRODUCTION

Gillnet test fishery operations have been conducted at Tyee in the lower Skeena River since 1955, in order to evaluate the magnitude of Skeena River salmon and steelhead trout returns (Kadowaki, 1977, Appendix 1).

This program was developed to provide daily estimates of sockeye and pink escapements through the commercial fishery. The data obtained from this operation, combined with estimates of the commercial catch in Area 4, provides a complete picture of the sockeye and pink runs as they develop each year. This information is considered essential for the effective management of all Skeena salmonid species.

Although daily escapement estimates are not calculated for the other species (chinook, coho, chum and steelhead), relative abundance and timing is determined by comparing the calculated indices for a given year to those recorded in previous years.

The purpose of this report is to document all information collected during the 1987 test fishery program.

2.0 METHODS

A complete description of the test fishery operations (ie., site location, equipment and methodologies) is provided in Appendix 1 (Kadowaki, 1977), for the period 1955 to 1976.

The Silver Token, a 12 m. fiberglass gillnet fishing vessel was chartered by the Department of Fisheries and Oceans following standard contractual arrangements (Appendix 2).

Test fishing operations commenced on June 9, 1987 and ended on September 6, 1987. Procedures were identical to those described in Appendix 1 (Kadowaki, 1977).

In addition to estimating the relative abundance and escapement of salmon and steelhead trout, numerous biological samples were collected as detailed in Appendix 3.

3.0 RESULTS

A total of 3,828 large sockeye, 353 jack sockeye, 720 large chinook, 137 jack chinook, 194 coho, 5,398 pink, and 122 chum salmon, and 336 steelhead trout were captured during test fishing operations in 1987.

Daily test fishing information is provided in Appendix 4. Fishing dates, set times, actual fishing time and catch by species are presented. Tide cycle information, presented in Appendix 5, is used to determine the exact time when sets are to be made as described in Appendix 1. The actual fishing time is calculated by the following formula:

Actual fishing time = 1/2(set time) + fishing time + 1/2(pick time)

An example of the above calculation is presented in Appendix 1.

Information relating to weather conditions (wind, rain and sky) and number of seals observed along the net are not included in this report, however they are available from the Department of Fisheries and Oceans Management Biology Unit files in Prince Rupert B.C..

Appendix 6 presents the indices or catches per hour for each set along with the daily averages for all salmon species and steelhead trout. Daily indices for pink salmon are calculated by averaging the high tide and low tide catches per hour separately before the final average is calculated (Appendix 7).

Daily, weekly and cumulative escapement estimates for sockeye and pink salmon are provided in Appendix 8. In addition, weekly and cumulative escapement targets for both species are included. The methods used in calculating the escapements for sockeye has evolved from an escapement per index conversion to a timing based regression to a weekly escapement to a weekly index regression. More recently, since 1985, sockeye escapements have been estimated by regressing the escapement per index unit against mean post orbital hypural length. Escapement estimates for pink salmon have been calculated exclusively by using an escapement per index conversion. Initially 1000 was used as the index conversion which has since been increased to 1300 in the early 1980's and 1500 in 1987.

Age, sex and length information for sockeye, coho, chum and chinook salmon and steelhead trout are provided in Appendices 9 to 13. Appendix 14 presents length and sex information for pink salmon sampled at the test fishery.

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APPENDIX 1. The Skeena River gillnet test fishery, 1955 to 1976 (Kadowaki, 1977).

INTRODUCTION

The Skeena River Salmon Management Committee was established in 1954 to investigate the condition and improve the management of the Skeena River salmon stocks. In addition, the annual yield was to be increased if and where possible.

To manage the fishery to provide for the highest sustained yield, an accurate daily estimate of spawning escapement just above the commercial fishery was necessary. This type of immediate information on stock strength greatly assists in regulating commercial fishery openings and closures, so as to make optimum use of the fishery as a cropping tool.

It was because of this need that a test fishery was established at Tyee (Fig. 1), just above the upriver commercial fishing boundary. A test fishery would provide data on sex, length and age composition of the escapement. This information could be used with the corresponding commercial data to trace the timing of individual stocks, as well as for basic inventory purposes (for between-years comparisons on the Skeena and comparisons with other systems). A tagging program was also planned in conjunction with the test fishery to determine timing from the commercial fishing boundary to the spawning grounds.

Beginning in 1955, two local gillnet boats with their skippers were chartered to carry out the program, assisted by two seasonal workers under the supervision of a technician. This arrangement continued until 1965, after which only one fishing boat which had shown consistent results, was hired. Tagging at the test fishing site was conducted for a number of seasons but was discontinued in favor of more seaward locations.

The purpose of this report is to present a technical description of the present Skeena River test fishery. In addition, previous methods of calculating the escapement estimate from test fishing catches are examined. Some of the sampling data collected is examined and discussed briefly at the end of the report.

METHODS

Description of Site

The estuary of the Skeena River exhibits the greatest tidal fluctuations on the Canadian Pacific coast (Can. Tide and Current Tables). Tidal differences of over six meters, common during spring tides, generate tidal currents of three to four knots in some areas. Debris-carrying tide rips, unusual current patterns and sandbars, make the setting of a commercial length gillnet in the Tyee area a very difficult procedure. The net is allowed to drift, within a channel measuring two to five kilometers long and 0.8 kilometers wide, that runs parallel to the northern shoreline. The upriver and downriver extremities of the channel are marked by a rock outcrop about 0.8 kilometers upriver from the test fishing dock, and by the Tyee railway station, 0.9 kilometers downriver from the dock. Its southern edge is clearly defined by sandbars, which are exposed at low tide.

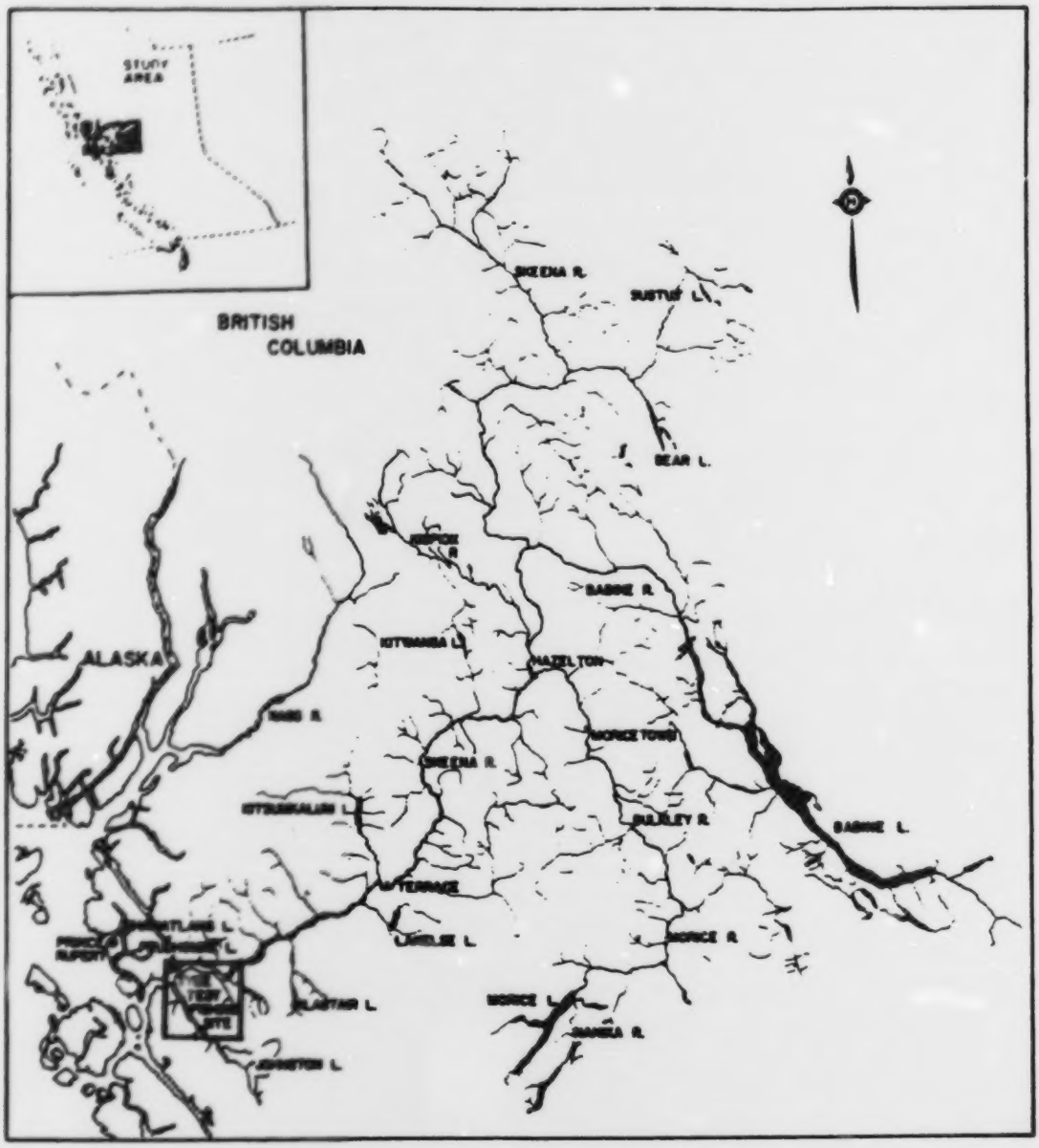


Figure 1. Skeena River drainage basin showing the Tyee test fishing site in relation to the location of major spawning areas.

Commencement and termination dates for the test fishing operation for the last ten years are listed in Table 1.

Table 1: Dates of commencement and termination for the Skeena test fishery for the years 1967 to 1976.

Year	Commencement	Termination
1967	June 14	August 27
1968	June 16	August 25
1969	June 13	August 30
1970	June 14	August 21
1971	June 14	August 27
1972	June 15	August 25
1973	June 14	August 28
1974	June 17	August 28
1975	June 16	August 26
1976	June 13	August 27
1967-76 Avg.	June 15	August 27

Logistics

Maintenance on the test fishery is minimal and routine. The test fishing dock is 34 highway kilometers from Prince Rupert, the nearest centre of population. The charter boat does not have to leave the test fishing site during the season, as all supplies can be trucked in by the technician. The test fishing net is changed every 16 days and taken to the Sunnyside Plant of the British Columbia Packing Company for repair and replacement. The fish caught are transported to the Atlin Fish Plant of the Canadian Fishing Company Limited in Prince Rupert, and ice is brought back to the test fishing site.

Equipment

The net used in the Skeena test fishery is an undyed, fibrous nylon gillnet of 200 fathoms total length and 20 feet depth, made up of ten equal length panels of mesh sizes 3.5 inches to 8 inches (Table 2). A twisted seven-ply twine was used up until 1969; however, since then, a limper, untwisted material has been used. This newer material is considered to be more efficient; however, test fishing catches are not indicative of this.

Table 2: Webbing specifications for the Skeena test net.

Panel No.	Twine Wt.	Mesh Size	Mesh Depth	Length(ftms)
1	#33	3.5	63	40
2	#33	4.0	55	40
3	#33	4.5	49	40
4	#43	5.0	44	40
5	#53	5.5	40	40
6	#63	6.0	37	40
7	#63	6.5	34	40
8	#83	7.0	31	40
9	#83	7.5	29	40
10	#83	8.0	27	40

The net is hung in a 2:1 ratio (webbing:finished net length) as opposed to the 2.5:1 ratio found in "outside" commercial nets and the 3:1 ratio found in "river" nets. This characteristic of the sampling net prevents excessive catches, which are not required in the test fishing operation. The size range of the meshes was selected to minimize intra-species size selection in capture of the migrating stocks of all salmon species, as well as steelhead trout. The body morphology, as well as other physical and behavioural characteristics of the individual species, however, inevitably leads to inter-species variations in catch.

Methodology

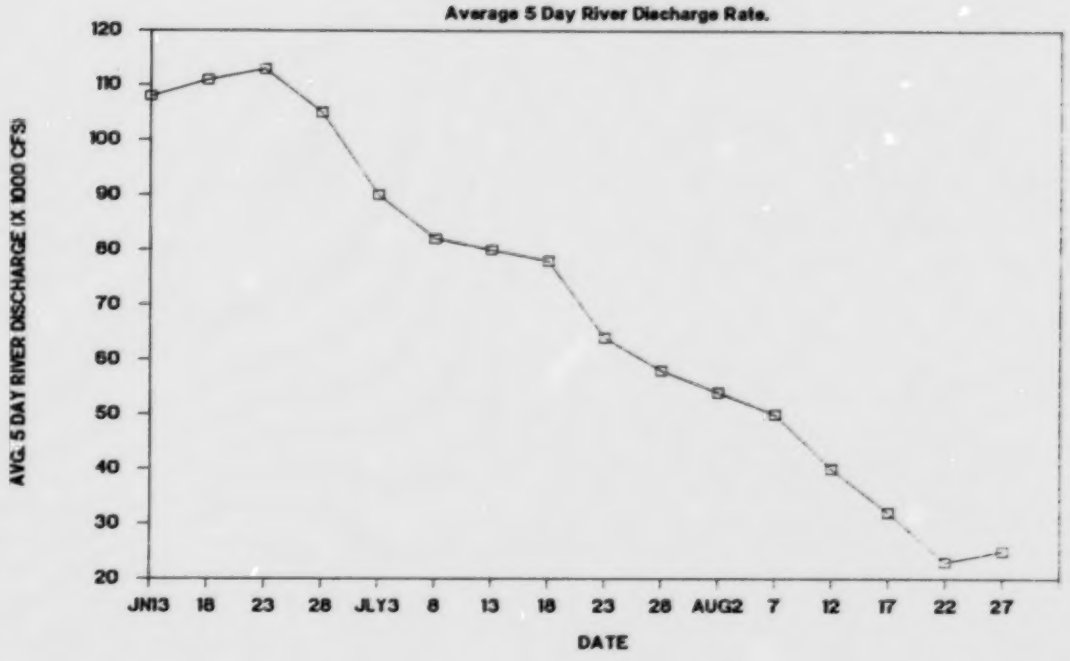
Timing of Sets

Set times for the Skeena test fishery vary according to two parameters. The first of these is tide height, i.e., the height of a particular tide above Chart Datum. The second factor is the discharge of the river. Spring freshets generally reach their peak in the month of June and taper off gradually throughout the summer (Fig. 2).

Sets are made on both high and low water slack during daylight hours. This usually results in three sets a day, but sometimes only two can be made. Set times are determined primarily by the unidirectional drift potential (UDP) of the current, i.e., how far the current will take the net in a single direction during the one-hour time span of the set. The importance of the UDP lies in the fact that the distance covered by a particular drift must fall within constraints imposed by both time and depth of water; time in the sense that drifts must be exactly an hour long, and river depth because of the rather restrictive channel passable to the test fishing gillnet. The UDP is governed by a combination of factors, the primary one being tide height and the river discharge rate. Spring tides, caused by the new and full moons, have far greater ranges between low and high tides than do the neap tides that occur during the first and last quarters of the cycle. Correspondingly, spring ebb and flood flows are greater than their respective neap counterparts.

A. Low tide sets - The time of low water slack at the test fishing site is delayed relative to the tide book time because of the effect of the

Fig. 2 Skeena Test Fishery.



river discharge. This is only a delay in the term of the direction of the surface current and does not affect the actual lunar ebb and flood. Discharge, being greater in the early part of the season, causes the delay of low water slack at this time to be the greatest of the season. This delay is also accompanied by a strong ebb flow, creating a high UDP. Thus, a set at this time of the season must be about a half an hour later in relation to the tide book time, than during low flow periods later on (Fig. 3a, 3b).

Spring and neap tides have their own very distinct flow characteristics. Spring tides tend to ebb at a very high velocity and then very abruptly begin to flood at an equally quick rate. Since the set must be of an hour's duration and cover a certain limited distance, the timing of the set must be very precise. Since the UDP of spring low tides is very high, sets must be made just before the current change, to avoid excessive downriver drift. Neap low water sets require less precision, as currents are slower and the tide change is not as marked as it is for spring tides. Consequently, to cover the required distance, the set must be made sooner than for spring tides.

B. High tide sets - The spring freshet advances the time of tidal current change at high water by about 40 minutes, causing the timing of the high tide set to be similarly advanced. Later on in the season as discharge rates drop, the set times become later (Fig. 3c, 3d).

Once again, as is the case with low tide sets, the primary factors governing the timing of the set are the maximum drift distance, determined by the presence of shallow water over sandbars, and the one-hour duration of each drift. Spring high tides, with their associated high current velocities, delay the high tide set times. Inaccuracy in timing of these sets could increase the UDP to undesirable levels in either direction of the set. Neap high tides require less accuracy because of their slower current velocities and consequent low UDP's.

Location of Sets

A. Low tide sets - Low tide sets are made a point about 0.8 kilometers above the test fishing dock, at the base of a solid rock outcrop. The buoy is dropped adjacent to the outcrop, and the net is set outward in a slight downriver direction. If the wind is calm or if it is originating from a downriver source, the net must be towed in a downriver direction for the full downriver component of the set, to maintain a perpendicular orientation to the shore. Failure to do so will cause the net to become parallel to the shoreline, and consequently not fish at the required efficiency. This type of flow pattern is due to the fact that the middle of the river tends to exhibit tide change characteristics somewhat earlier than the periphery, resulting in the slower drift velocity at the boat end of the net. A downriver wind counteracts this effect so that no towing is necessary.

The principal strategy of the set then, is to keep the net perpendicular to the beach and to cover the required distance down to a point just below the tourist lookout (Fig. 4).

B. High tide sets - The high tide set is made at a point just downstream

Fig. 3A Skeena Test Fishery.

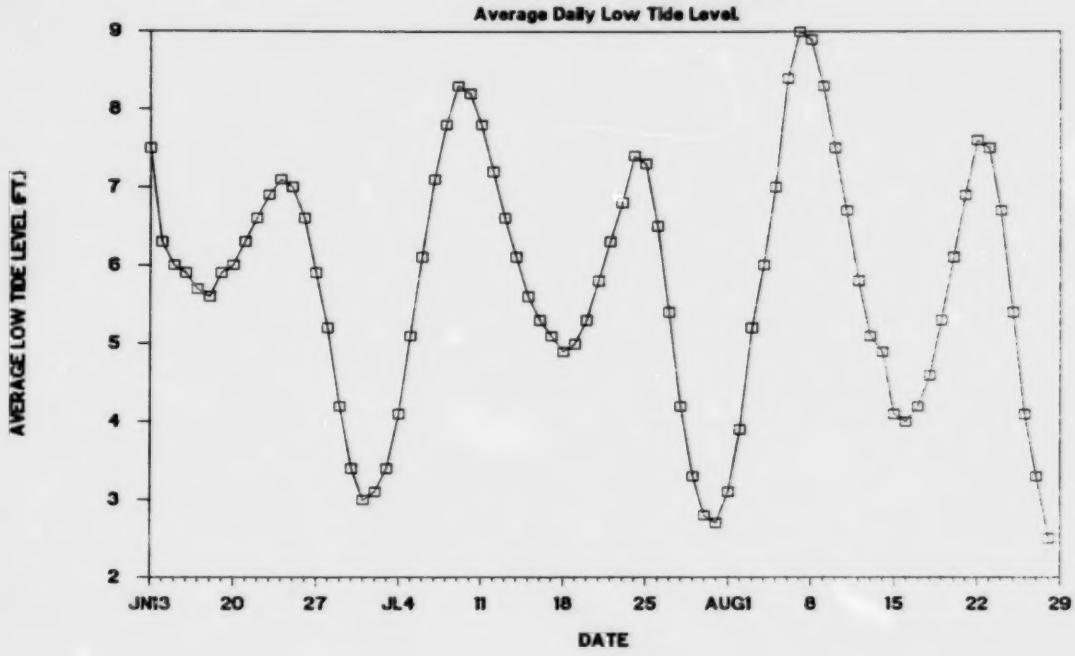


Fig. 3B Skeena Test Fishery.

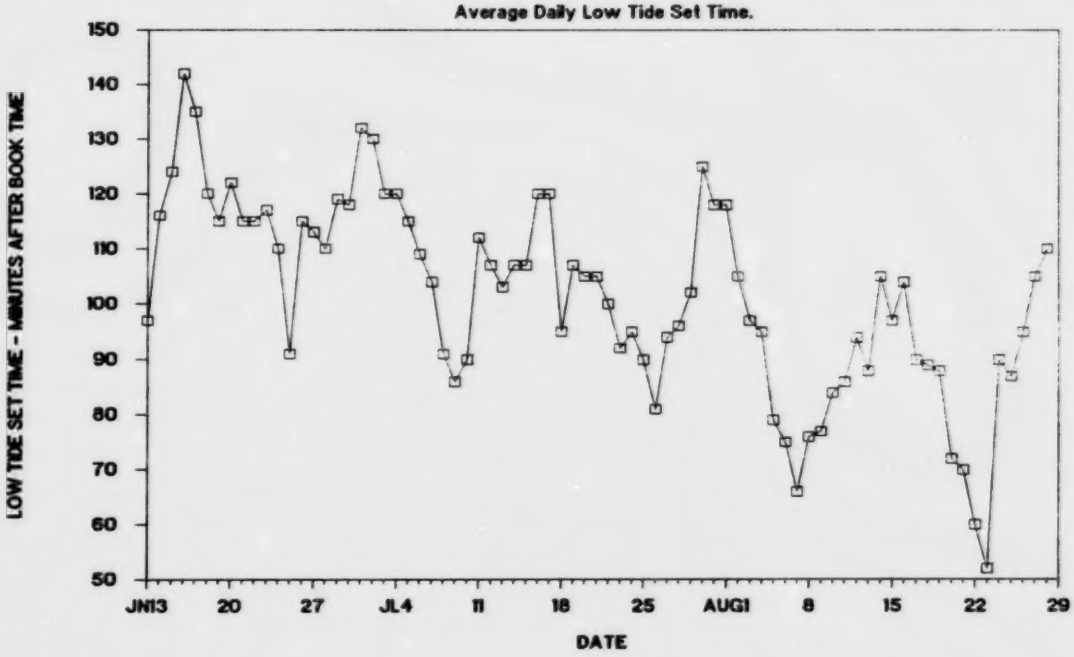


Fig. 3C Skeena Test Fishery.

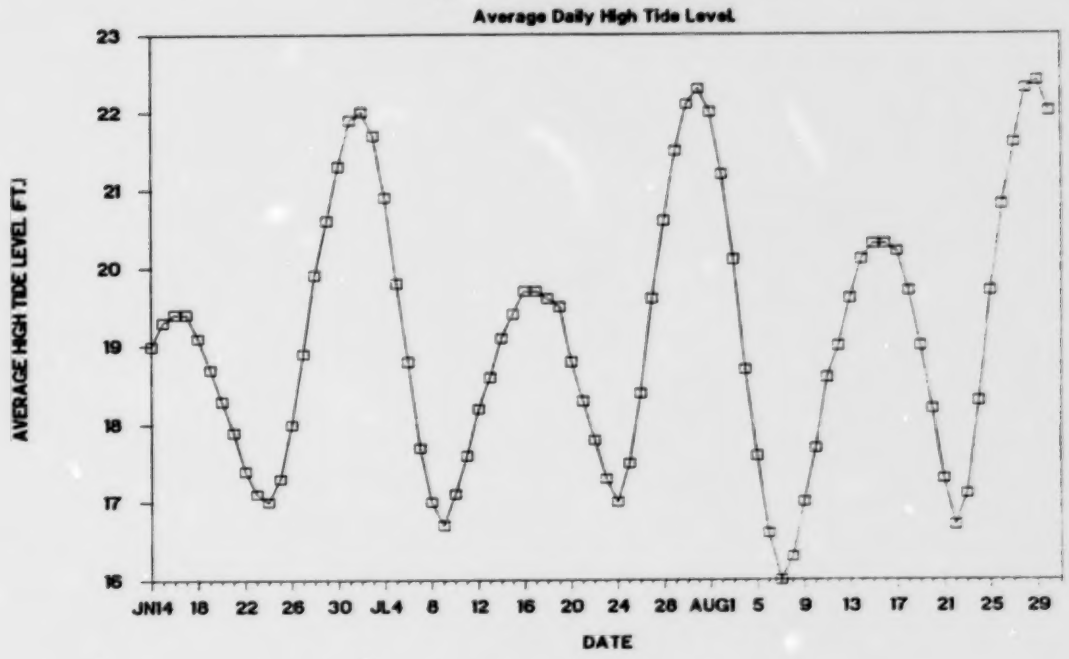
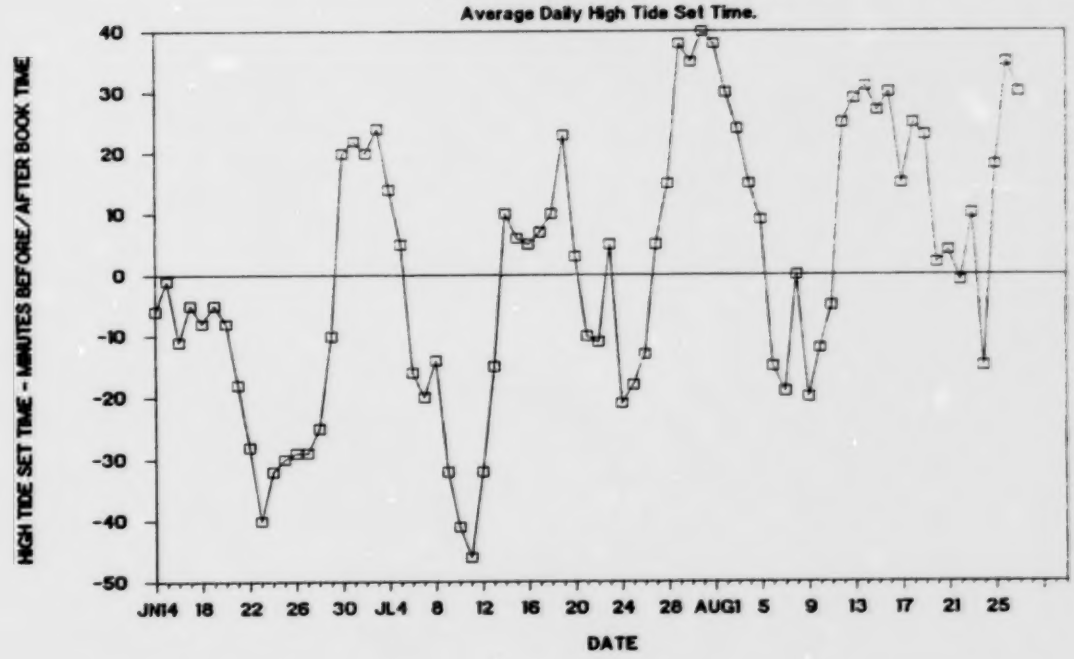


Fig. 3D Skeena Test Fishery.



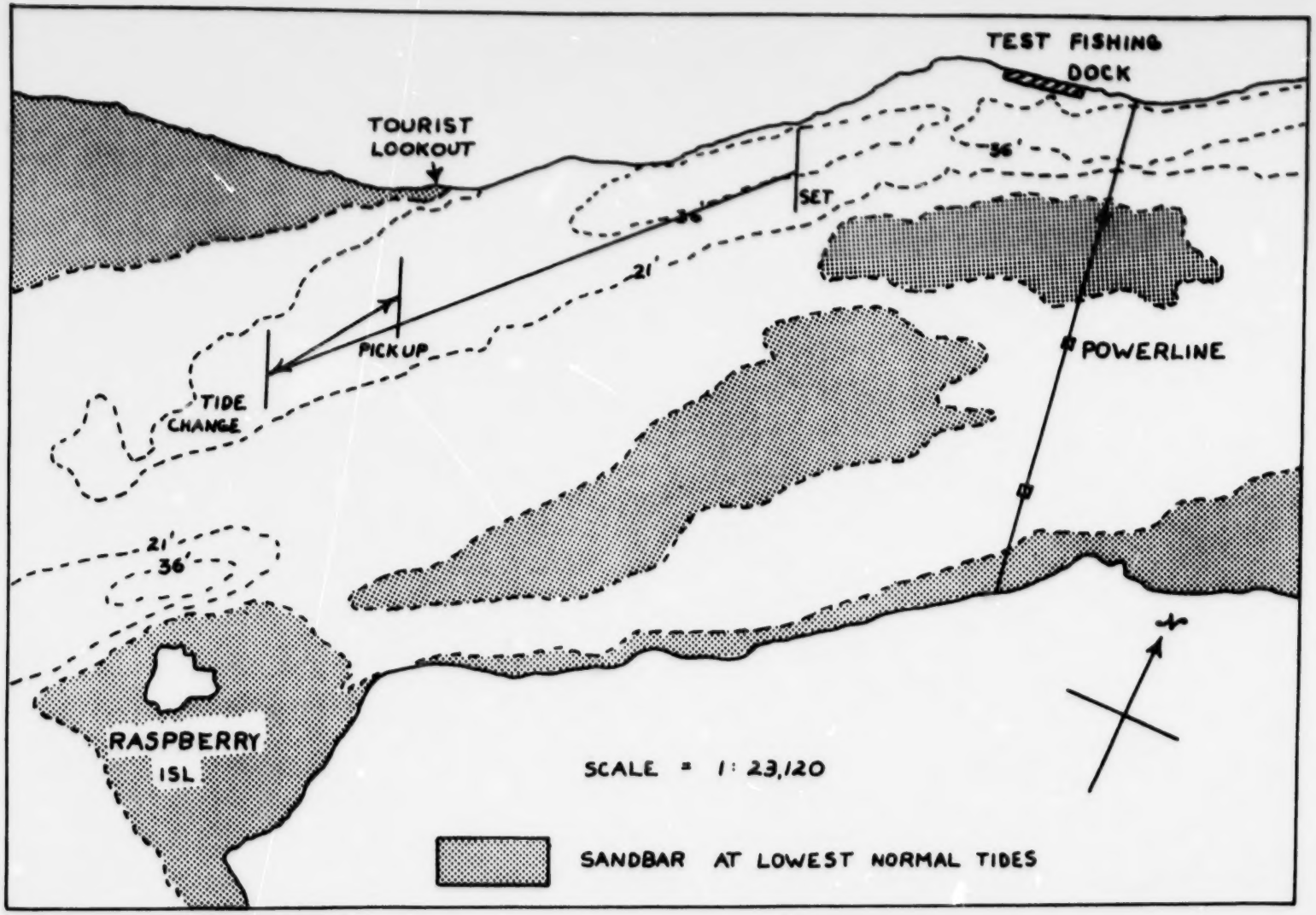


Figure 4. Low tide set location.

from the test fishing dock in water of 8 to 10 meters depth, depending upon the actual height of the tide. The set is made in a shoreward direction, leaving the net approximately 150 meters from the shore when the net is completely set. The net should drift upstream past the dock and stop somewhere between the dock and the rock outcrop. The ebb flow should not carry the net back further than the dock for proper sampling (Fig. 5).

One factor associated with high tide sets and not with low tide sets is the presence of a debris-carrying tide rip, that occurs about 100 to 150 meters from, and parallel to, the shoreline (Fig. 6). The currents on either side of this rip move at different velocities; therefore, a set across this rip zone could cause the net to bend at the rip and eventually align itself with it, as well as pick up a large amount of debris. Therefore, the net is set so that the shore end lies just outside of the rip.

Another factor peculiar to high tide sets is that for some sets, the net tends to pull away from the shore, towards the sandbars in the middle of the river. This pull is unpredictable and must be counteracted by towing the net shoreward.

Small variations in the distance covered by any drift are inevitable and expected because of irregularities in daily discharge rates, local wind and debris conditions. In addition, adjustments to the one-hour duration of the set are sometimes unavoidable. However, since escapement estimates are based on catches per hour, any deviations can be corrected for by adjusting the catch per hour figure.

RESULTS

Test Fishing as an Index of Escapement

In the early years of the test fishing operation, estimates of pink and sockeye escapements were made using indices derived from previous years data, by dividing the total annual upriver escapement by the annual sum of the average daily catch per hour (Table 3).

Table 3: Test fishing indices and escapement abundance for Skeena pinks and sockeye, 1955 to 1961.

Year	Sum daily catch/hr		Total escapement ($x10^3$)		Index	
	Sockeye	Pink	Sockeye	Pink	Sockeye	Pink
1955	377	1,672	125	987	333	584
1956	832	522	447	202	537	387
1957	769	1,929	547	868	711	451
1958	1,153	1,149	935	556	811	484
1959	1,110	1,909	866	1,383	780	725
1960	407	195	321	215	789	1,104
1961	1,156		1,011		875	

In 1962, the Fisheries Research Board derived a time-based regression equation to calculate an improved test fishing index for sockeye. Tagging studies conducted since 1958 at the test fishing

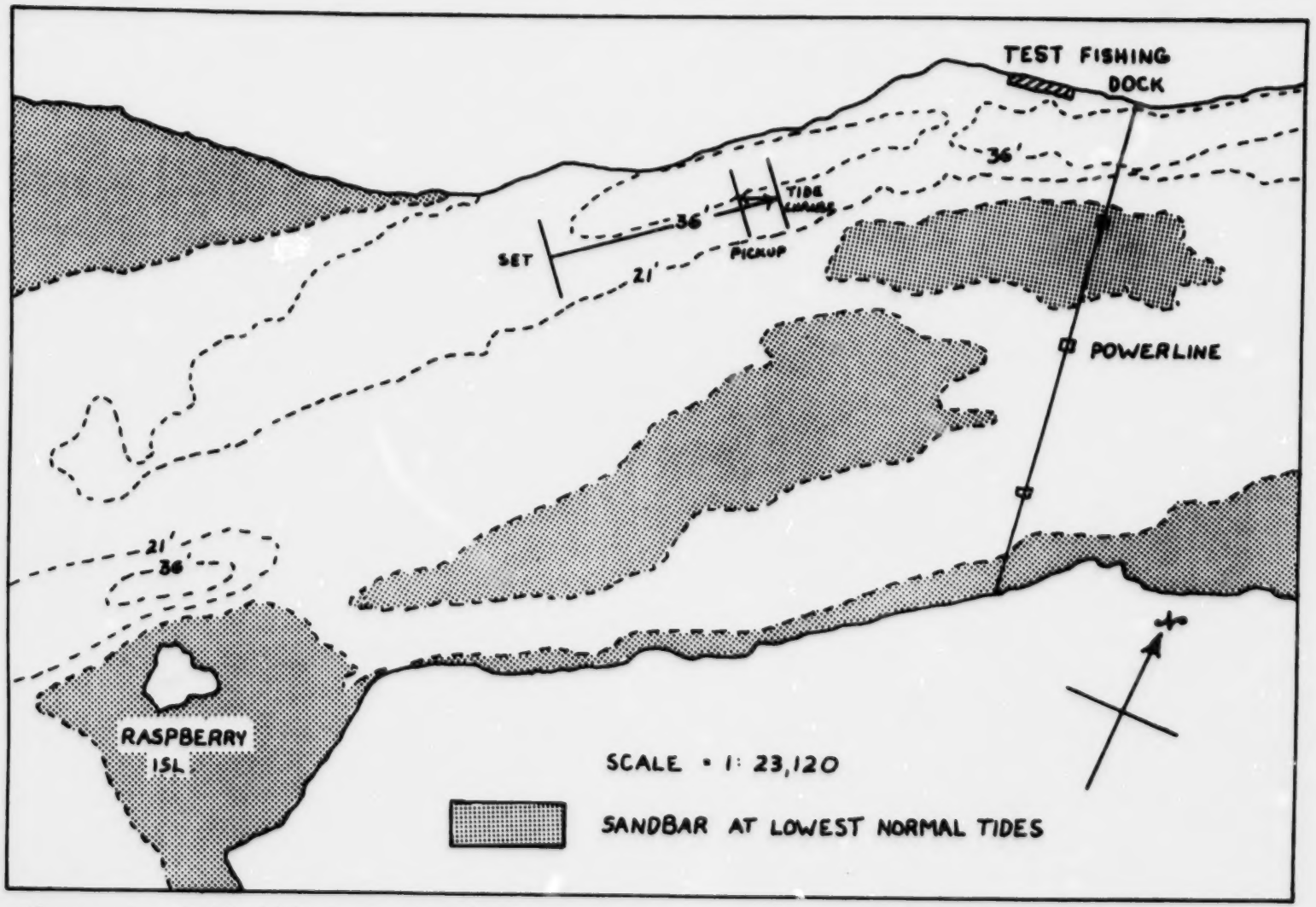


Figure 5. High tide set location.

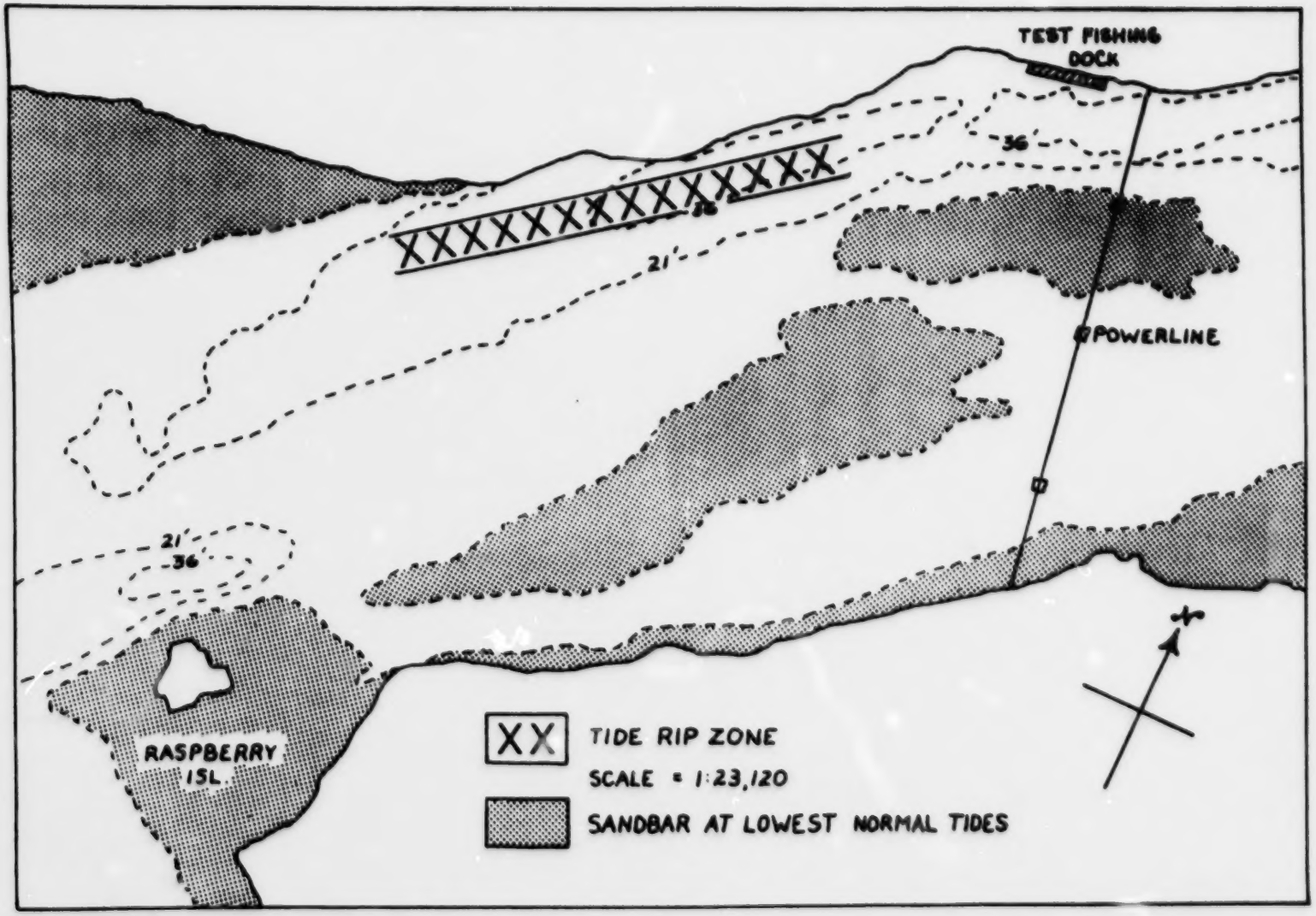


Figure 6. Tide rip zone.

operation were used to pre-date sockeye counts at the Babine counting fence to their corresponding time of passage at the test fishing site. Test fishing catches were then related to fence counts in this time-related manner for the years 1958 to 1961, resulting in the following regression: Y= 9.14X + 660.5, where Y is the daily test fishing factor and X is the day.

This technique assumes a number of conditions. Firstly, the efficiency of the net towards sockeye is assumed constant. In reality though, it may in fact decrease as the season progresses due to one or more of the following: 1) different sub-stocks may have different migration routes; 2) the physical size of different fish of the same species may vary, e.g., male-female or 4sub2 - 5sub2 dichotomy; 3)larger numbers of fish of other species later in the season may lead to gear saturation towards sockeye. Secondly, it is assumed that the migration rate is constant for all stocks. However, Takagi and Smith (1973) have shown that there may be differential migration rates throughout the season. Moreover, tagging studies conducted in 1966 along with other data analyses (anon., 1967) strongly suggested that the rate of migration of sockeye salmon up the Skeena increased during the season. Thus, the use of average migration rates forces an increasing number of fish into a constant seven-day time period for fence arrivals, resulting in an apparent drop in test fishing efficiency.

Errors in escapement estimates of over 40 percent occurred using the above method, and since there is no mechanism for inserting corrections, inadequacies in the original equation cannot be weeded out.

Therefore, a regression of weekly escapements with weekly sums of daily test fish catches per hour was calculated for the 1969 season using the data from 1966 to 1968. Weekly escapements were calculated by multiplying the actual counted escapement to the entire Skeena system by the weekly sum of the average daily catch per hour, expressed as a percent of the total season's catch. New data points can be added, and a new regression equation calculated annually. For the years 1969 to 1975, the percent errors of the estimated escapement when compared to the actual have averaged nine percent (Table 4).

Table 4: Accuracy of test fishing estimates of sockeye and pink escapements.

Year	Regression Equation Sockeye	Estimated Escapement (1,000's of fish) Sockeye	Pink	Actual Escapement (1,000's of fish) Sockeye	Pink	Percent Error Sockeye	Pink
1969	612X-187.5	681	917	704	873	+3	-5
1970	627X-147	641	912	722	923	+13	+1
1971	645X-236	806	961	885	1,090	+10	+13
1972	663X-308	739	650	742	1,672	0	+157
1973	659.9X-280.8	1,197	855	962	1,251	-20	+46
1974	586.4X+420.8	970	343	792	314	-18	-8
1975	572.9X+359.2	902	879	910	1,822	+1	+107
1976	573.0X+354.5	628	514	658	597	-4	+16
			1969-76 Avg.			9	44

A number of assumptions are made in using this technique. Firstly, all fish passing the test fishery must do so only once. Secondly, there must be no intra-species size selectivity. Thirdly, capture of fish must not inhibit subsequent captures and, finally, identical migration routes must be exhibited by all stocks. These assumptions, however, are not totally valid, resulting in at least part of the variability in the estimate.

Pink salmon daily catches per hour are simply multiplied by one thousand to arrive at escapement estimates. Comparisons with actual escapments are difficult and less accurate than for sockeye, as only a small proportion of the run passes through the Babine counting fence. Therefore, errors in the test fishing estimate (Table 4) also include errors in the spawning ground estimates.

Catches of coho, chum, chinook and steelhead are too small to give reliable escapement estimates. Furthermore, the migration timing of these species (Table 8) precludes the possibility that the test fishery would sample all of the stocks of the run in question.

Factors affecting test fishing catches

Tide Level

Prior to 1966, when the two-skipper system was in use, tide level played no apparent role in the determination of the test fishing catch. After establishment of the one-skipper system, however, it became evident that low tide sets were more successful than high tide sets. A check of pre-1966 data shows that the skipper that was retained had higher catches on the low tide ever since the test fishery began. In four out of the five years, from 1971 to 1975, there was a significant difference ($P<0.05$) between catches on the high water and low water sets (Table 5).

Table 5. Average sockeye catches on high and low sets.

Year	High tide catch/set	Low tide catch/set	Significant difference ($P<0.05$)
1971	12.7	22.3	
1972	12.5	20.7	x
1973	17.6	31.2	x
1974	16.9	31.0	x
1975	15.2	28.6	x

A number of possible explanations exist for this difference. An increase in the errors-sectional area of the river at the test fishing site and the resultant dispersion of fish at high tide would logically result in decreased catches.

Echo sounding surveys of the abundance and distribution of migrating Skeena sockeye were conducted in 1968, 1969 and 1970 by Vroom (1971). He discovered that sockeye prefer the north shore as a migration route, except very early in the season when the south shore is

equally utilized. The low tide set, which is made closer to the north shore than the high tide set, is thus likely to catch larger numbers of fish. Also, since the low tide set covers twice the distance of high tide sets, it should encounter more fish.

Average daily catches for the past five years (1971 to 1975) indicate that catches tend to be greatest on the neap tides (Table 6). This would support the theory of Goot et al (1975) that Skeena sockeye move with the ebb and flood flows during spring tides, and only assume constant positive migration when the tidal fluctuations become smaller. Vroom's data from 1969 showed that during spring tides the main migration routes were along the banks, while migrants were more dispersed at neap tides. This is probably in response to the stronger current flows during spring tides.

Table 6. Average sockeye daily catches per hour on spring and neap tides, 1971 to 1975.

Year	Average daily catches per hour Spring	Neap
1971	16.67	15.61
1972	6.86	25.09
1973	27.67	31.12
1974	20.90	27.11
1975	14.26	34.90

Climate

Although climatic factors have not been very accurately documented for the Skeena test fishing operation, it is well known that they play a significant role in determining the catchability of salmon (Milne,1955; various fishermen, pers. comm.; Vroom et al, 1971). Surface wave action of any type has the effect of increasing the efficiency of any type of gillnet. The vertical movement imparted to a net by the surface oscillations of the water aids in camouflaging the net, as well as increasing its gilling action. Rain tends to drive fish deeper and make them less available to gillnet gear. Clear skies, with their associated westerly winds, cause fish to swim nearer the surface, as evidenced by the larger numbers of fish caught in the upper half of the set during such times (various fishermen, pers. comm.).

Net Conditions

The test fishing net is changed every 16 days. Damage to the net by seals, snags and handling may cause reduced catches near the end of the 16 day period. Conversely, new nets may inhibit approaching fish from entering the net because of the boldness of the twine color. With repeated soakings in the river, the twine takes on a muddy brown color and becomes less visible.

Seals

Since the banning of seal hunting in 1972, it appears that seal populations are on the increase. In 1976, not one seal-free set was

recorded. In previous years, seal sightings were greatest in the early and late stages of the test fishing operation, when fish populations were smallest. Catch losses to seals may affect escapement estimates significantly, particularly at the beginning of the season when catches are small.

Sampling

Species timing

The Skeena test fishery is primarily a tool in the management of the sockeye salmon. Virtually the entire run of sockeye is sampled by the test fishing gillnet. Only parts of the runs of other species are sampled, with the greatest overlap in timing with the sockeye, belonging to the chinook.

Peak sockeye catches occurred in week six (average for years 1969 to 1975), with the peak for chinook coming a week earlier. The peak week for coho, pink and steelhead was week nine, and that for chums, week 10. The peak week data for the last four species is misleading however, as the runs continue until well past the termination date of the test fishery operation (Fig. 7). The range of occurrence for steelhead is somewhat misleading as the catch in the first three to four weeks of the season is made up almost entirely of kelts (adults returning to the sea after spawning).

Age

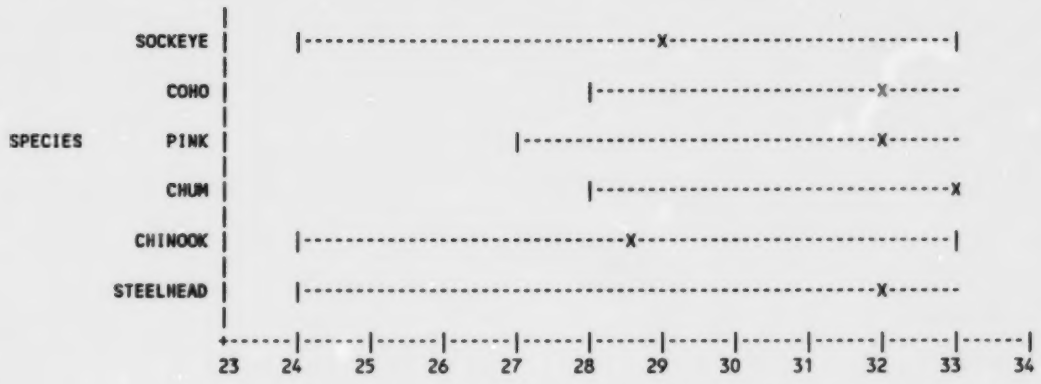
Sockeye - Skeena River sockeye return to spawn in either their third, fourth, fifth or sixth year of life. With respect to the freshwater component of their life history, two main groups are evident: those that have spent one year in freshwater and those that have spent two years. The Skeena River has five major age groups of sockeye (Larkin and McDonald, 1968).

1) 3sub2's (invariably males) which migrate to sea in their second year and mature in their third.
2) 4sub2's, which migrate to sea in their second year and mature at four years of age.
3) 5sub2's, which migrate to sea in their second year and mature at five years of age.
4) 5sub3's, which migrate to sea in their third year and mature at five years of age.
5) 6sub3's, which migrate to sea in their third year and mature at six years of age.

Age group 3sub2 sockeye are called jacks and are considered to be precociously mature males. Their function on the spawning grounds is uncertain. However, they are believed to have a disruptive effect on the larger spawners as they themselves make attempts to procreate. The test net has only one panel (3.5 inches) that can effectively capture jack sockeye. Consequently, sample sizes are small, and population estimates from these catches would be unreliable.

Of the larger size sockeye, age groups 4sub2 and 5sub2 make up most of the run, averaging 52 and 42 percent respectively from 1956 to 1975.

Figure 7. Average timing of salmon and steelhead trout through the Skeena Test Fishery, 1969 - 1976.



Vertical bars = limits of occurance.

Horizontal lines = range of occurance.
Note: Coho, Pink, Chum and Steelhead continue to migrate past test fishing site after termination of test fishing operation.

X = week of peak catches at the test fishing site.

STATISTICAL WEEK		CORRESPONDING DATES
23	=	June 10 - 16
24	=	June 17 - 23
25	=	June 24 - 30
26	=	July 01 - 07
27	=	July 08 - 14
28	=	July 15 - 21
29	=	July 22 - 28
30	=	July 29 - Aug. 04
31	=	Aug. 05 - 11
32	=	Aug. 12 - 18
33	=	Aug. 19 - 25 (Test fishery operation is terminated after this week).
34	=	Aug. 26 - Sept. 01

Most of these fish are destined for the Babine River system. The main systems supporting sub3 adult sockeye are the Morice, Nanika, Alastair and Johanson. The age characteristics of a particular system are not absolute however, and other age groups may be present in small numbers.

The test fishery age data over the years seems to indicate the presence of certain repeating migration patterns. Withler (1945) in an analysis of data from 1926 to 1941 formed the following predominant patterns:

1) 4sub2 males - low at the beginning of the migration, reaching a peak during the period from July 5 to July 25, and then back to former low level.
2) 4sub2 females - increasing throughout the season.
3) 5sub2 males - steady decline as the season progresses.
4) 5sub2 females - steady increase as the season progresses.
5) Steady increase of 4sub2's as the season progresses.
6) Steady decline of 5sub2's as the season progresses.

The present test fishing data tends to concur with Withler's (1945) observations, except for the pattern of 5sub2 female migration. In recent years, 5sub2 females have shown initial increases but have then declined until the end of the season.

Annual variations in the percentage of 4sub2's and 5sub2's can be quite acute (Table 7). For example, in 1968, 14 percent of the total run was made up of 4sub2's and 73 percent of 5sub2's. In 1975, the percentages were 76 and 23 respectively.

An examination of the age compositions of both the test fishery and the commercial catch of sockeye reveals a process of selection in the commercial fishery towards the five-year-old fish. An analysis of the data for the years 1957 to 1975 shows that the ratio of relative exploitation rates (exploitation rate of 5sub2 fish/exploitation rate of 4sub2 fish) averaged about 1.2 (Table 8). Larkin and McDonald (1968) in their simulation model of Skeena sockeye stocks found that age 4sub2 fish should be reduced to about two percent of the total run by year 50 of the simulation, using a selection factor in favour of 5sub2's of 1.5. This model also assumed, among other things, an inherited age of return as well as a cycle factor that implied large returns for large brood year escapements.

Chinook - Test fishing age data of Skeena chinook is available from 1973 to 1976 (Table 9). For the purpose of comparison, earlier data (Godfrey, 1968) is presented as well. Sampling of age 3sub2 fish is not done in a consistent manner and is therefore omitted from the table. Age 3sub1 and 4sub2 fish are the smallest fish sampled. They are almost exclusively males and must consequently mate with other age groups.

The predominance of sub1 fish (4 and 5 years old) in recent years seems to be the only repeating characteristic of the Skeena chinook. In individual years, the run may be strengthened by 3sub1 males and for 5sub2 fish of both sexes. White chinook tend to have more individuals in the older 6sub2 age class than do red chinooks.

The 1964 to 1966 age composition data is characterized by age 3sub1

Table 7: Sockeye age compositions at the Skeena test fishery, 1956-1976.

YEAR	ESCAPEMENT	NO. OF 4_2's	% 4_2's	NO. OF 5_2's	% 5_2's	NO. OF 5_3's	% 5_3's	NO. OF 6_3's	% 6_3's	NO. OF OTHERS	% OTHERS
1956	447,324	323,416	72	101,140	23	10,736	2	11,675	3	313	<1
1957	546,924	355,500	65	168,453	31	18,267	3	3,719	<1	984	<1
1958	934,858	377,028	40	518,846	56	33,935	4	4,394	<1	654	<1
1959	866,190	219,146	25	562,677	65	72,327	8	11,694	1	433	<1
1960	320,663	205,866	64	75,099	23	16,226	5	22,735	7	673	<1
1961	1,011,261	787,368	78	165,645	16	49,451	5	8,697	<1	-	-
1962	612,812	221,715	36	363,826	59	18,201	3	8,334	1	735	<1
1963	651,966	452,594	69	148,061	23	43,356	7	7,628	1	391	<1
1964	905,780	262,495	29	590,387	65	38,858	4	8,786	2	5,254	<1
1965	683,202	411,561	60	209,401	31	31,632	5	30,129	4	547	<1
1966	453,599	229,703	51	185,976	41	25,674	6	11,975	3	272	<1
1967	667,509	418,662	63	227,888	34	10,079	2	10,880	2	-	-
1968	620,000	88,040	14	452,166	73	35,092	6	42,160	7	2,592	<1
1969	704,056	441,443	63	245,011	35	10,561	2	4,788	<1	1,971	<1
1970	726,600	460,519	63	218,779	30	24,196	3	9,155	1	13,951	2
1971	896,406	500,105	56	341,800	38	23,934	3	27,699	3	2,868	<1
1972	748,950	227,314	30	504,942	67	6,591	1	14,080	2	2,022	<1
1973	971,416	466,862	48	487,748	50	10,200	1	6,606	<1	-	-
1974	803,022	327,342	41	463,938	58	6,124	1	5,618	<1	-	-
1975	916,314	646,514	76	206,885	23	9,841	1	2,758	<1	315	<1
1976	663,848	276,553	42	368,391	55	9,785	2	9,119	1	-	-

and 4sub2 males, 5sub1 and 5sub2 females and 4sub1 fish of both sexes.

Table 8. Numbers of 4sub2 and 5sub2 sockeye in Skeena catch and escapement for the years 1957 to 1975 with approximate estimates of selective exploitation of 5sub2 fish.

Year	Catch in thousands 4_2	5_2	Escapement 4_2	5_2	Relative rates of expl. 4_2	5_2	Ratio 5:4
1957	191	73	356	168	0.349	0.303	0.868
1958	203	380	377	519	0.350	0.423	1.209
1959	27	128	219	563	0.110	0.185	1.682
1960	91	70	206	75	0.303	0.483	1.594
1961	701	158	787	166	0.471	0.488	1.036
1962	154	305	222	364	0.410	0.456	1.112
1963	88	36	453	148	0.163	0.196	1.202
1964	169	550	262	590	0.392	0.482	1.230
1965	128	144	412	209	0.237	0.408	1.722
1966	242	292	230	186	0.513	0.611	1.191
1967	430	555	419	228	0.506	0.709	1.401
1968	114	597	88	452	0.569	0.569	1.009
1969	269	235	441	245	0.379	0.490	1.293
1970	322	179	461	219	0.411	0.450	1.095
1971	491	335	500	342	0.495	0.495	1.000
1972	137	496	221	505	0.383	0.496	1.295
1973	692	495	467	488	0.597	0.504	0.844
1974	448	881	331	470	0.575	0.652	1.134
1975	343	133	697	207	0.330	0.391	1.185
1957-75 Avg.							1.216

Coho - The coho run of the Skeena River is made up of two major age classes: 3sub2 fish that left their freshwater rearing areas in their second year and stayed one year at sea and 4sub3 fish that have stayed at sea for one year following two full years in freshwater. Catches of coho by the test fishery are not large enough to give any kind of reliable estimate of the age composition of the run.

Chum - Most chum are four or five year old fish that have left freshwater immediately upon emergence from the gravel.

Sex Ratio

Sockeye - An analysis of the available data from the test fishery, Babine Fence and commercial catch shows a consistent relationship between the three with regards to sex ratio. The percentage of females in the commercial catch is invariably higher than that at the Babine Fence which, in turn, is always higher than the test fishing percentages (Table 10).

Assuming that sampling at the Babine Fence is unbiased, it would follow that the test fishing gillnet selected for males while the commercial nets selected for females. A possible explanation for this selectivity could be that males exhibiting secondary sexual characteristics are susceptible to capture by more of the multi-sized panels than the more streamlined females. For the commercial gillnets,

Table 9: Skeena test fishery, Chinook age composition (1964-1966 averages, 1973-1976)

YEAR	COLOR	SEX	N	PERCENTAGE AGE COMPOSITION									N AS % OF TOTAL
				3_1	4_1	4_2	5_1	5_2	6_1	6_2	OTHERS	R^1	
1964-66	R	F	192	1.0	36.5	3.1	8.3	17.2	0	2.6	0	31.3	32.3
1964-66	R	M	325	13.8	10.2	21.8	2.8	5.5	0	0.3	14.5	31.1	54.7
1964-66	W	F	28	0	17.9	0	14.3	25.0	0	3.6	0	39.3	4.7
1964-66	W	M	49	12.2	10.2	14.3	8.2	4.1	0	2.0	10.2	40.8	8.2
1973	R	F	53	1.9	35.8	5.7	30.2	5.7	0	1.9	0	22.6	34.6
1973	R	M	78	20.5	24.4	14.1	9.0	5.1	0	2.6	0	23.1	51.0
1973	W	F	15	0	13.3	0	26.7	26.7	0	6.7	0	26.7	9.8
1973	W	M	7	14.3	14.3	0	14.3	14.3	0	14.3	0	28.6	4.6
1974	R	F	80	1.3	33.8	0	10.0	16.3	0	15.0	0	23.8	40.0
1974	R	M	83	6.0	19.3	10.8	6.0	20.5	1.2	7.2	0	28.9	41.5
1974	W	F	18	0	16.7	0	11.1	22.2	0	27.8	0	22.2	9.0
1974	W	M	19	0	26.3	0	10.5	26.3	0	5.3	0	31.6	9.5
1975	R	F	101	1.0	28.9	1.0	37.6	5.9	1.0	4.0	0	20.8	53.2
1975	R	M	60	0	26.7	5.0	28.3	8.3	1.0	0	0	30.0	31.6
1975	W	F	12	0	8.3	0	50.0	0	0	8.3	0	33.3	6.3
1975	W	M	17	0	5.9	0	47.1	0	0	17.6	0	29.4	8.9
1976	R	F	74	1.4	39.2	0	33.8	4.1	0	5.4	0	20.3	42.6
1976	R	M	71	15.5	28.2	2.8	19.7	7.0	0	1.4	0	25.4	40.8
1976	W	F	14	0	7.1	0	35.7	0	7.1	28.6	0	21.4	8.0
1976	W	M	15	13.3	26.7	0	33.3	0	0	0	0	26.7	8.6
1973-76	R	F	308	1.3	33.8	1.3	28.2	8.1	0.3	6.8	0	21.8	43.0
1973-76	R	M	292	11.0	24.3	8.6	12.3	10.6	0.7	3.1	0	26.7	40.7
1973-76	W	F	59	0	11.9	0	22.0	13.6	1.7	18.6	0	25.4	8.2
1973-76	W	M	58	5.2	19.0	0	27.6	10.3	0	10.3	0	22.4	8.1

R^1 = regenerate.

it appears that the excess of females may be attributed to the high proportion of the larger 5sub2 fish in the catch in comparison with the test fishery. The sex ratio of the 5sub2 fish seems to be more heavily skewed towards the females than the 4sub2 fish (Table 10).

Table 10. Sex composition of sockeye salmon at the Skeena test fishery, the Babine Fence and in the Area 4 commercial gillnet catch.

Year	Test Fishery % M	% F	Babine Fence % M	% F	Commercial Catch % M	% F
1967	56.7	43.3	52.1	47.9	47.8	52.2
1968	41.2	52.8	38.3	61.7	34.6	65.4
1969	51.7	48.3	46.0	54.0	44.3	55.7
1970	47.1	52.9	46.1	53.9	40.9	59.1
1971	51.0	49.0	50.8	49.2	41.1	58.9
1972	40.8	59.2	37.9	62.1		
1973	50.8	49.2	43.1	56.9		
1974	51.6	48.4	32.7	67.3		
1975	48.8	51.2	41.7	58.3		
1976	46.4	53.6	45.8	54.2		

Changes in the overall sex ratio of sockeye sampled at the test fishery site throughout the season is very marked. In the data for 1973 to 1976 (Fig. 8a), an increase in the percentage of females is evident as the seaon progresses. Close inspection also reveals two peaks in the percentage of females. The first one, with a female percentage of about 45 to 50 percent, occurs at about July 3. The second peak is at about August 6 and measures about 55 percent females. Babine Fence arrivals of female sockeye are also bimodal, but the timing of passage at this point is more compressed (Fig. 8b) than that at the test fishing site.

Length

Sockeye - The average length by sex of the major age classes of Skeena sockeye (Table 11) reveals an interesting characteristic. Of age 4 fish, females were larger than males, in all years from 1966 to 1971 and 1973 to 1976, except for 1974. Age 5sub2 males were larger than 5sub2 females for all years sampled. A weekly breakdown of lengths (Fig. 9) by sex and age shows a tendancy for age 4sub2 fish of both sexes to increase in size as the season progresses. Age 4sub2 males start out smaller than the females, but by week five to seven, they make up the difference and become larger. Age 5sub2 fish also tend to get larger as the season progresses but at a lesser rate than the 4sub2's (the rate is equal for both sexes, with the males always being larger).

Sampling of the commercial catch for the years 1912 to 1972 (Bilton et al, 1965 to 1972) indicates a reversal in the relationship between 4sub2 males and females when compared to the test fishery, males being consistantly larger than females. Fish of all age groups in the commercial catch were larger than their counterparts caught in the test fishery. Gear selectivity in the commercial gillnet fleet is quite evident and has been noted by Todd (1969) as well, in his study on the Skeena River. However, this selectivity seems to have had no effect

Fig. 8a Skeena Test Fishery.

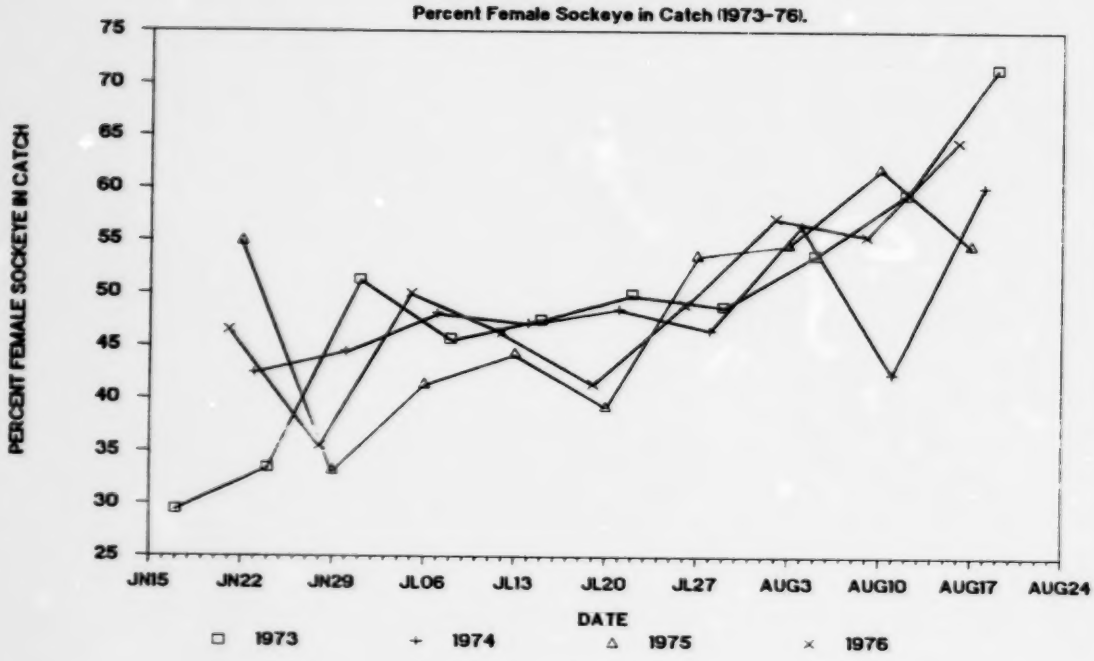


Fig. 8b Babine Fence Enumeration Project.

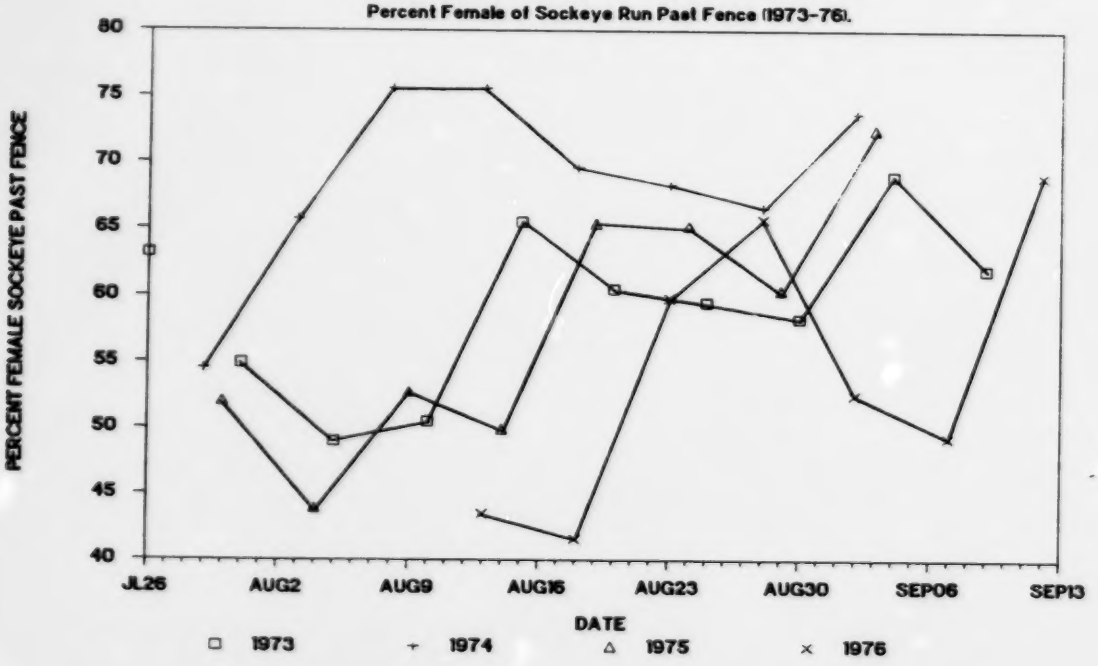


Table 11: Average post orbital - hypural lengths of male(M) and female(F) sockeye salmon in the Skeena test fishery and the Area 4 commercial gillnet catch.

Year	Skeena Test Fishing Catch				Area 4 Commercial Gillnet Catch			
	4_2M	4_2F	5_2M	5_2F	4_2M	4_2F	5_2M	5_2F
1966	448.3	461.0	530.3	516.1	473.5	464.8	539.3	519.9
1967	435.4	454.7	531.8	513.1	464.5	467.1	539.2	519.8
1968	459.1	462.8	533.5	522.3	477.5	476.3	541.3	524.5
1969	448.7	459.2	533.4	508.4	480.2	475.1	539.7	523.3
1970	461.1	463.5	517.3	503.4	478.9	473.8	531.6	511.0
1971	453.5	459.7	527.5	513.0	468.1	470.2	523.1	514.6
1972					476.6	477.1	539.2	524.0
1973	457.2	472.2	527.2	518.7				
1974	472.6	472.0	595.2	525.9				
1975	457.4	463.9	538.6	514.5				
1976	455.5	468.6	538.8	521.8				

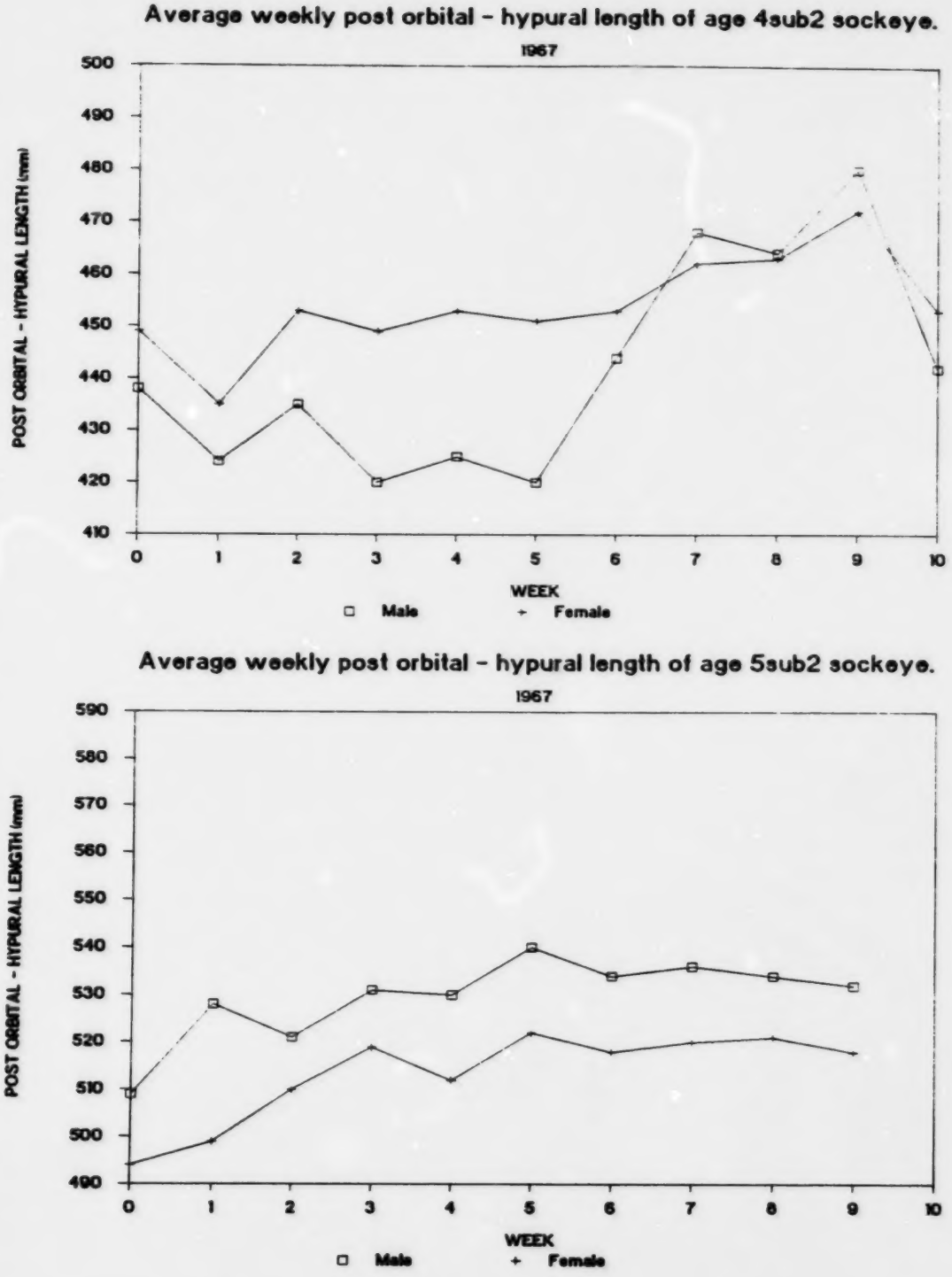
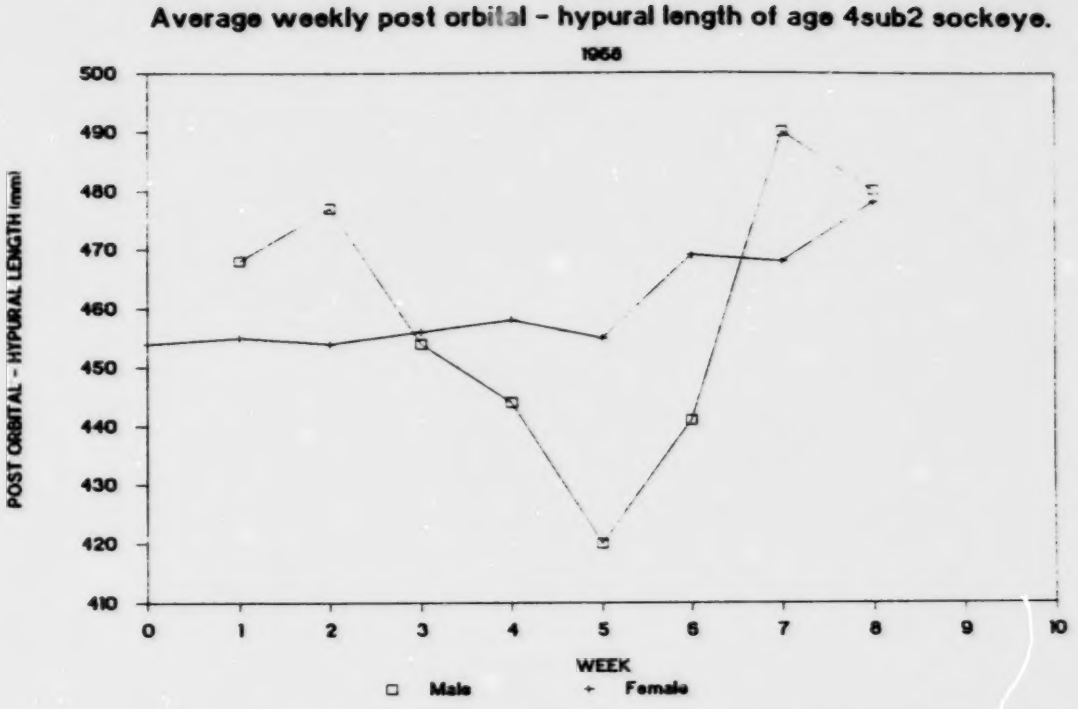


Figure 9. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.



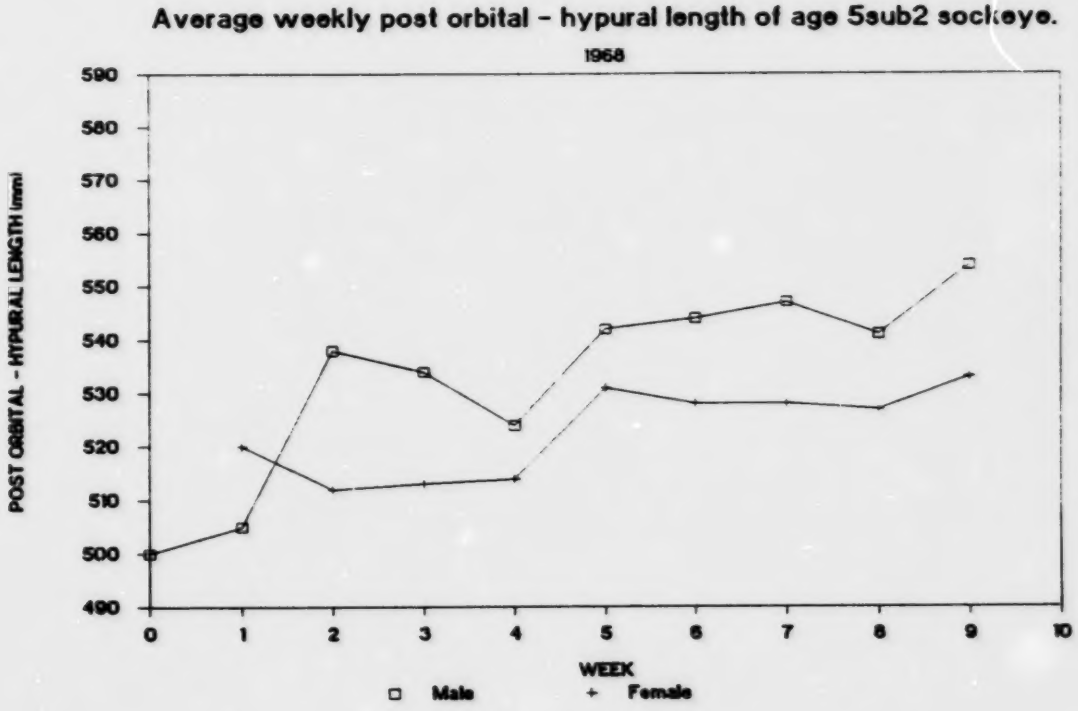
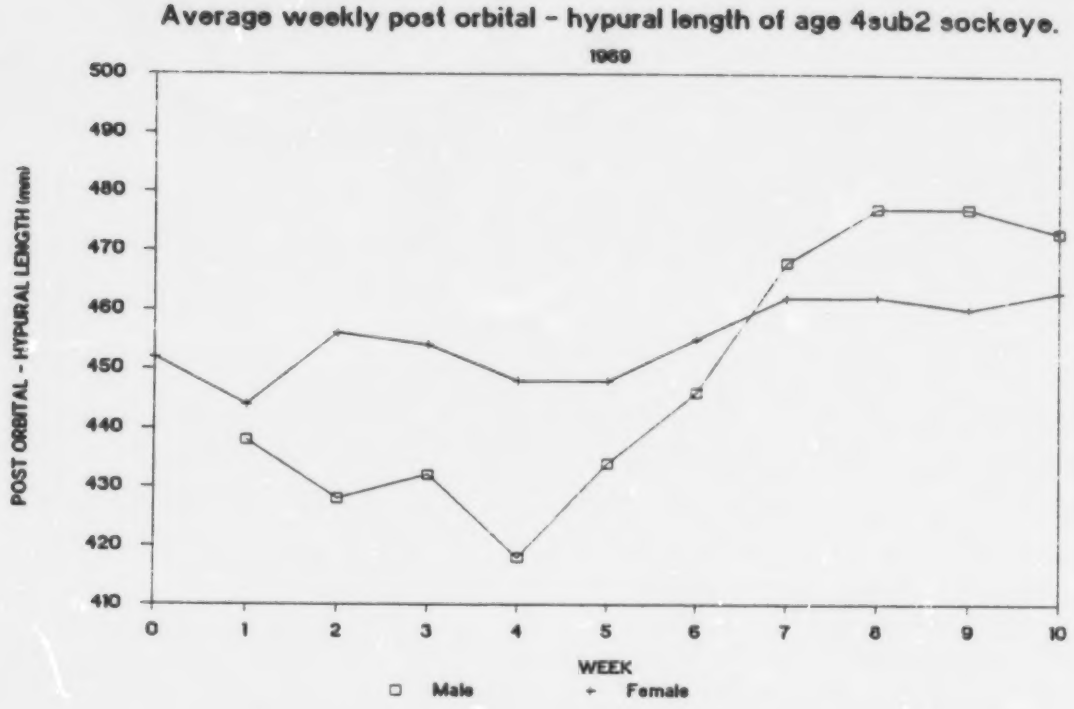
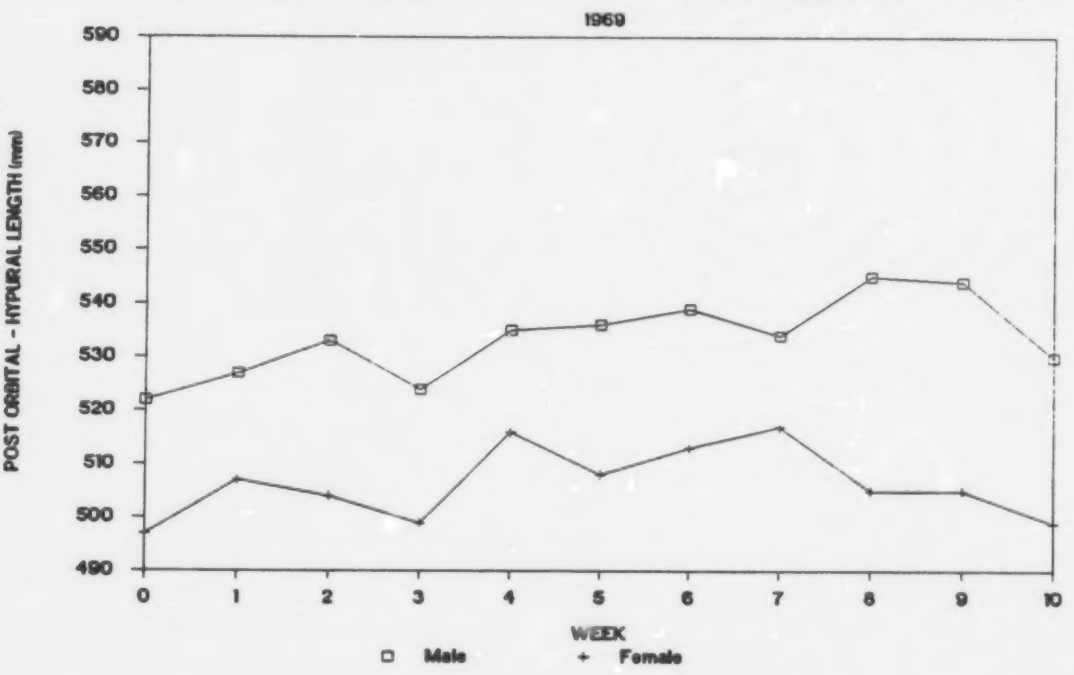


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.





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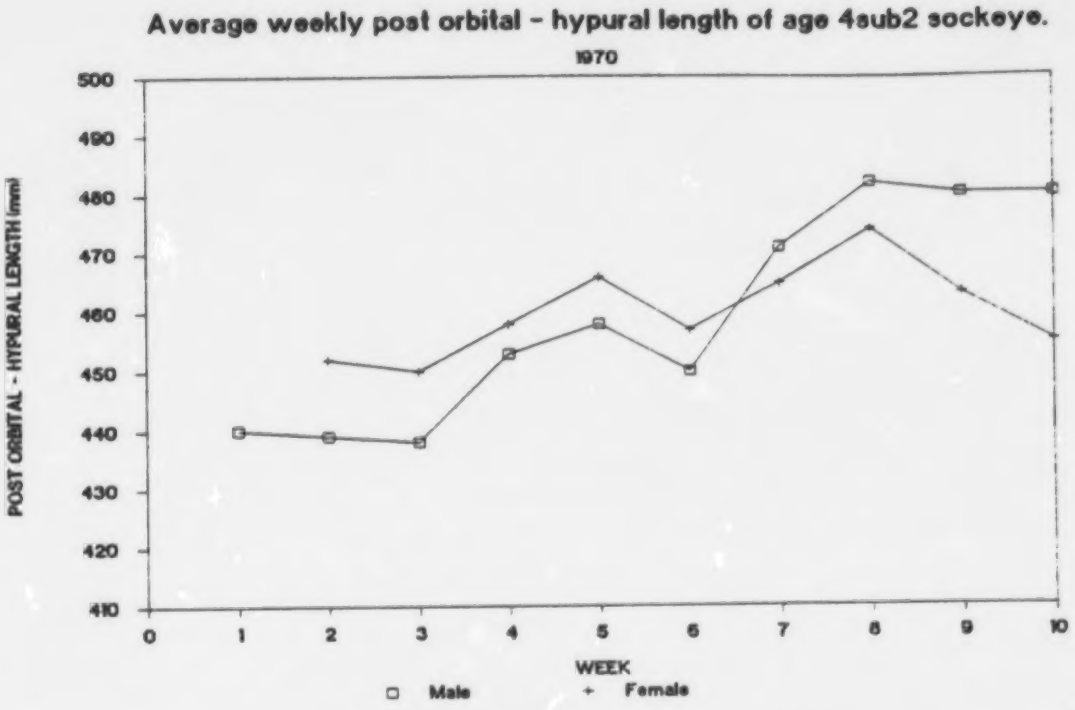
Week 7 contains August 1st.



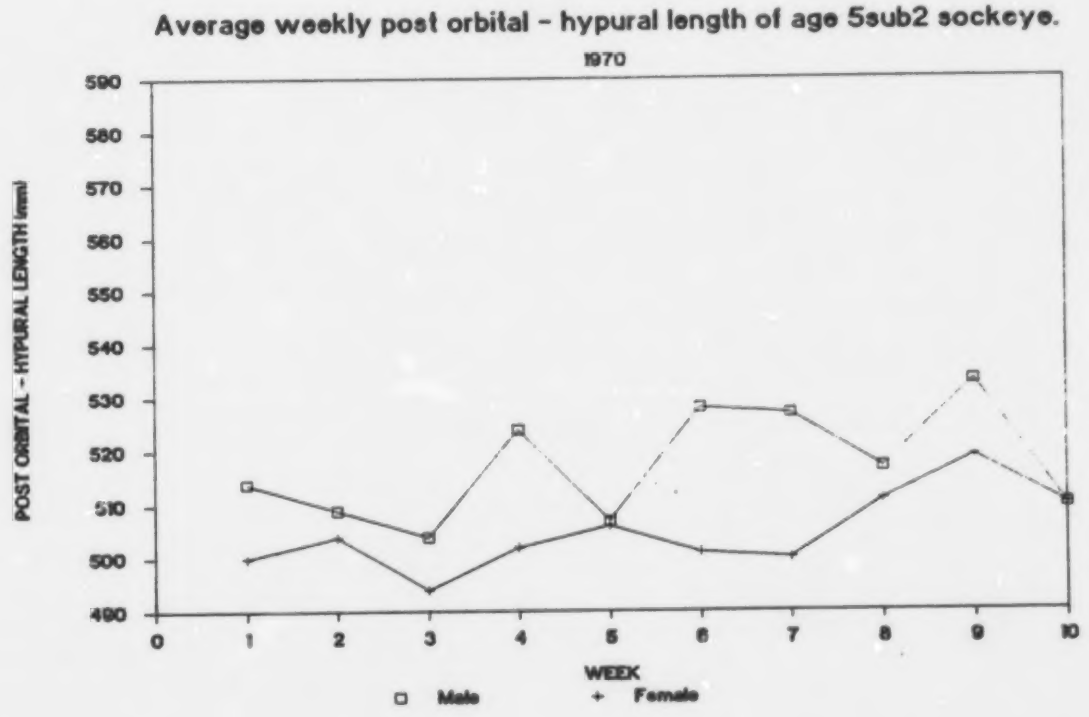


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

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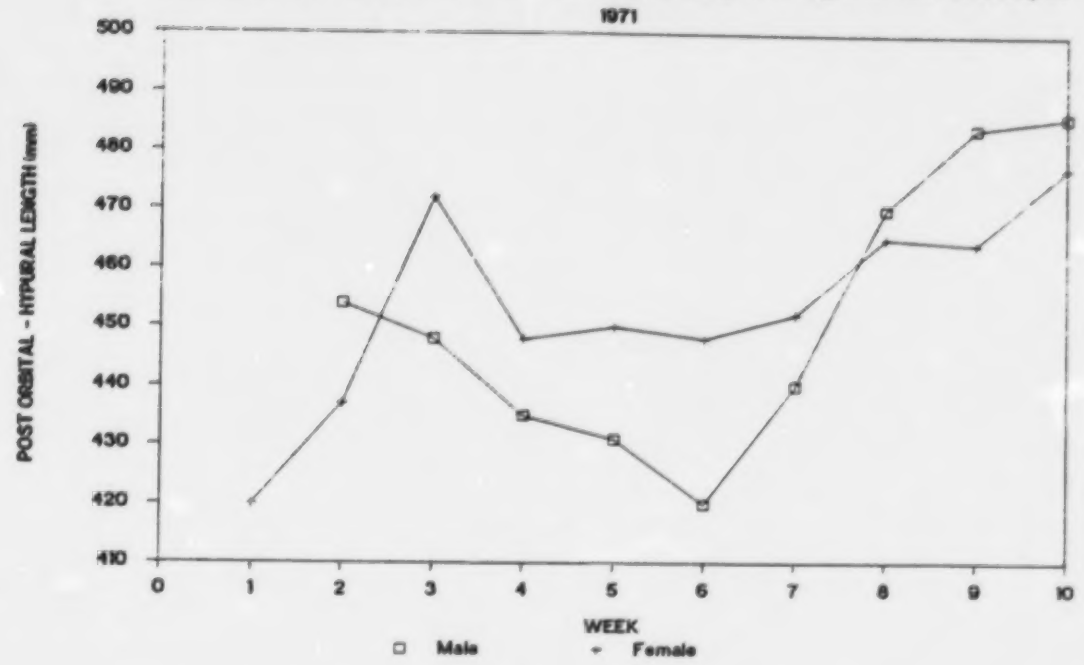


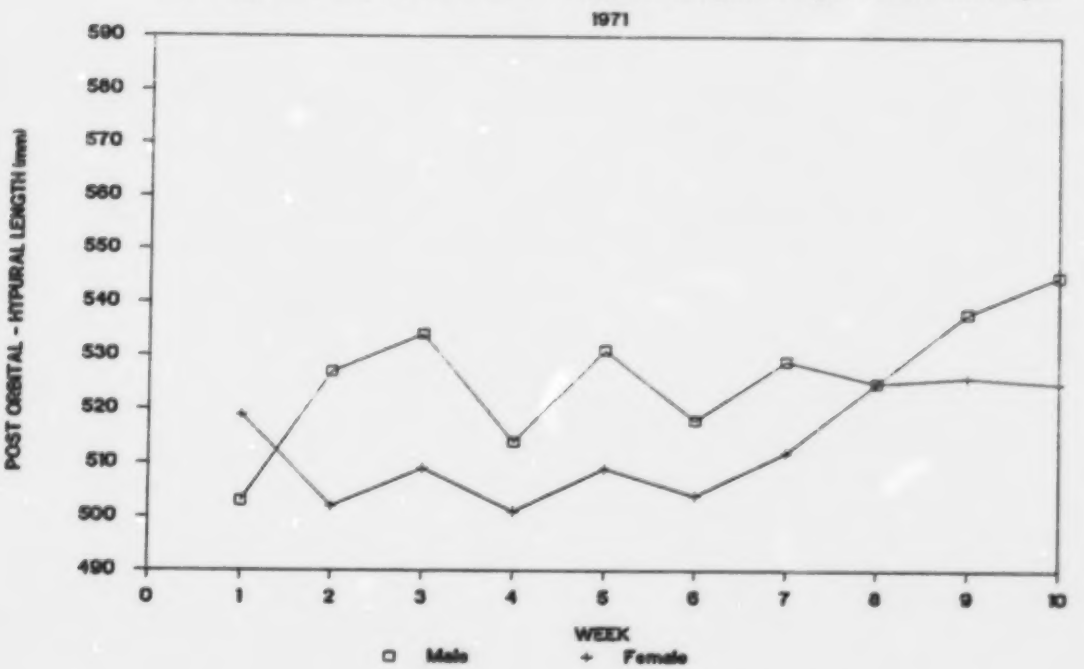
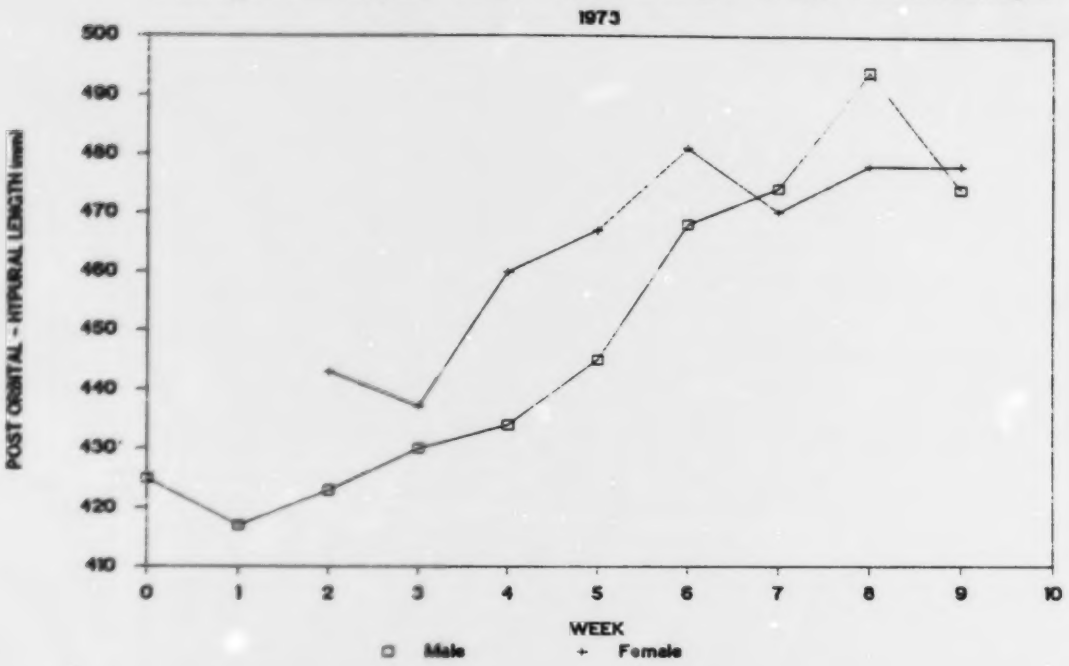


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

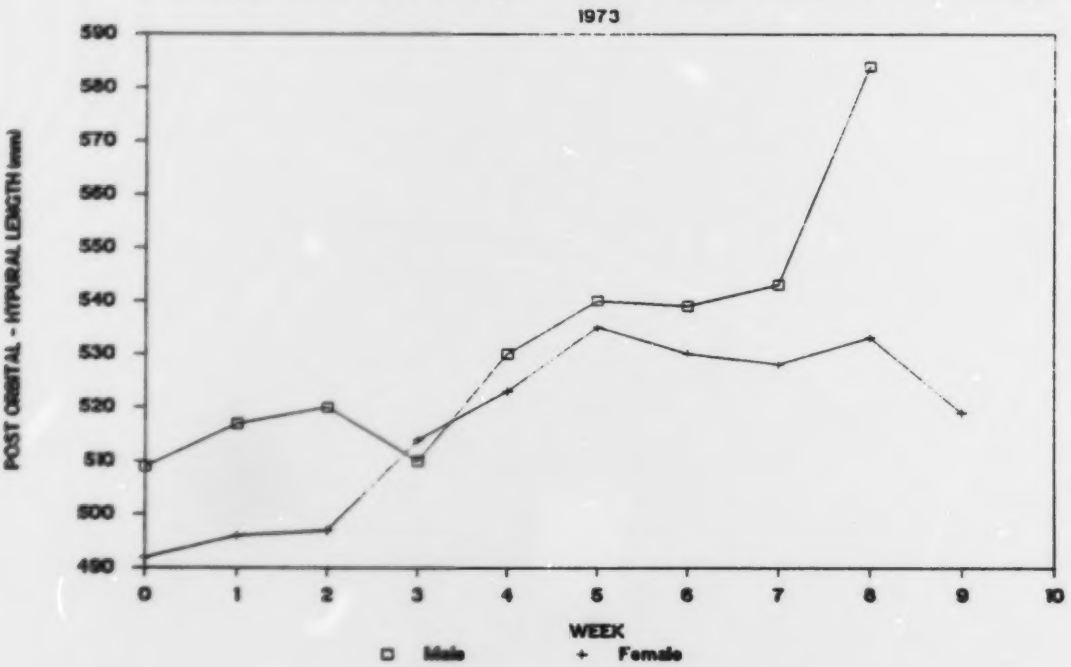
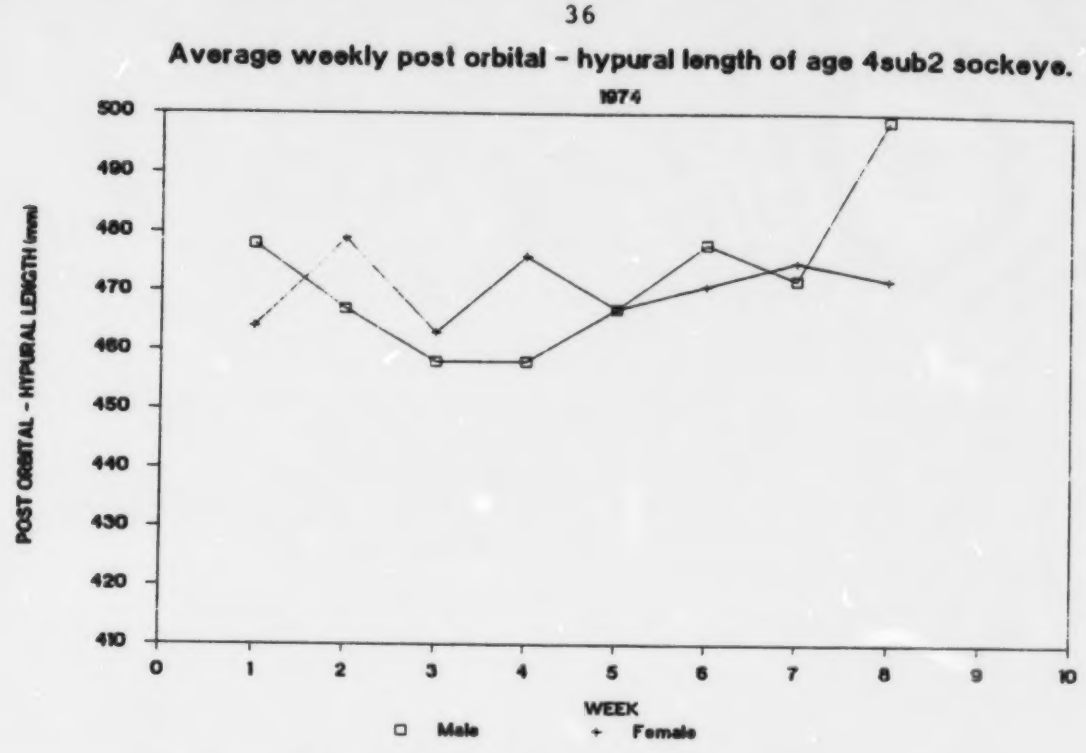


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.



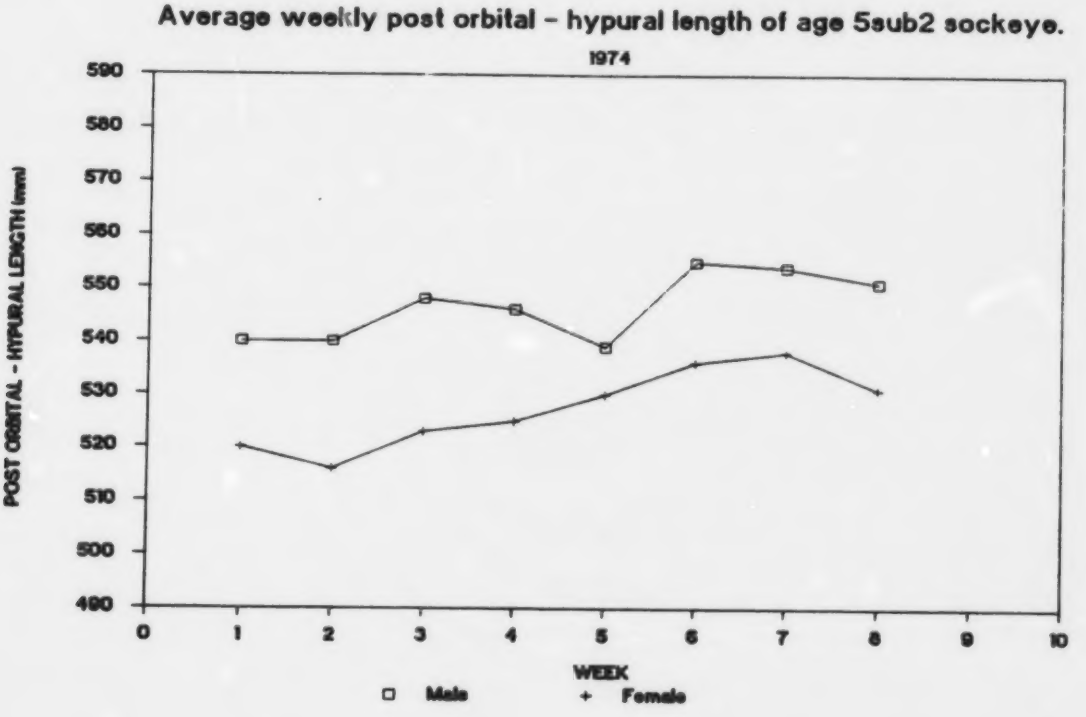
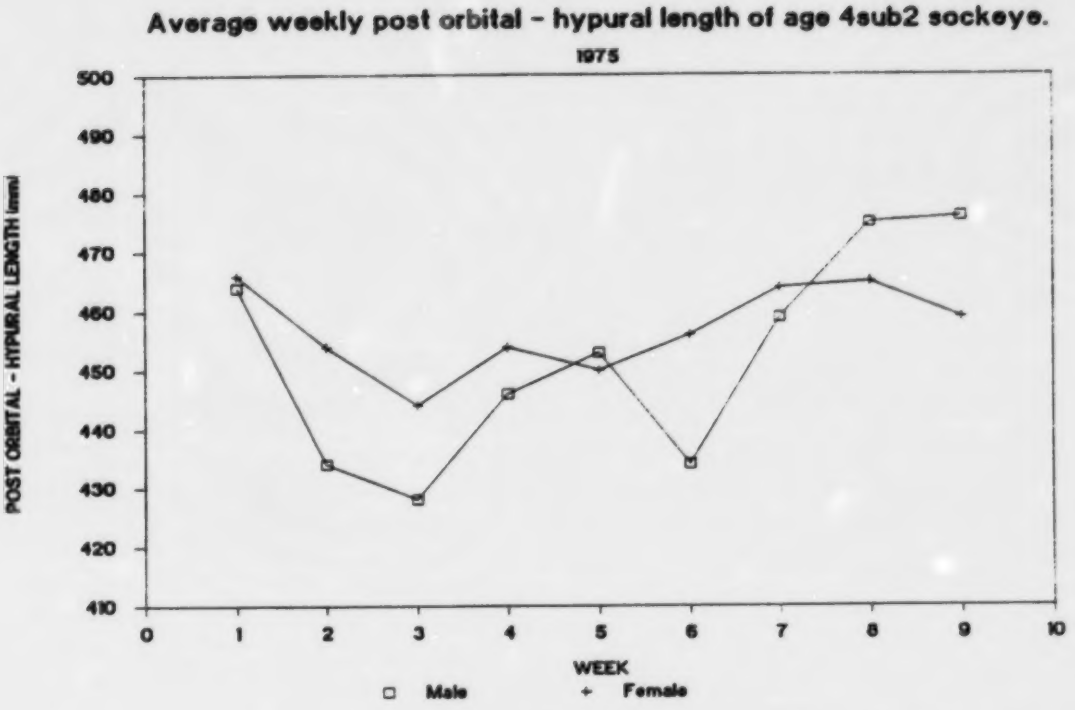


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.



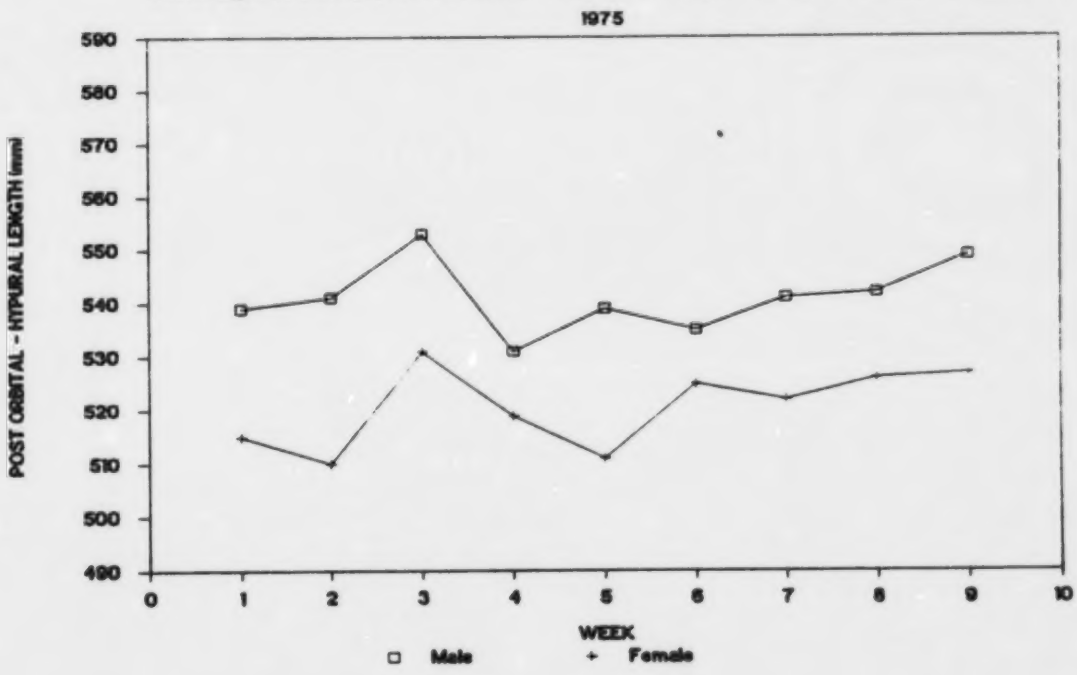
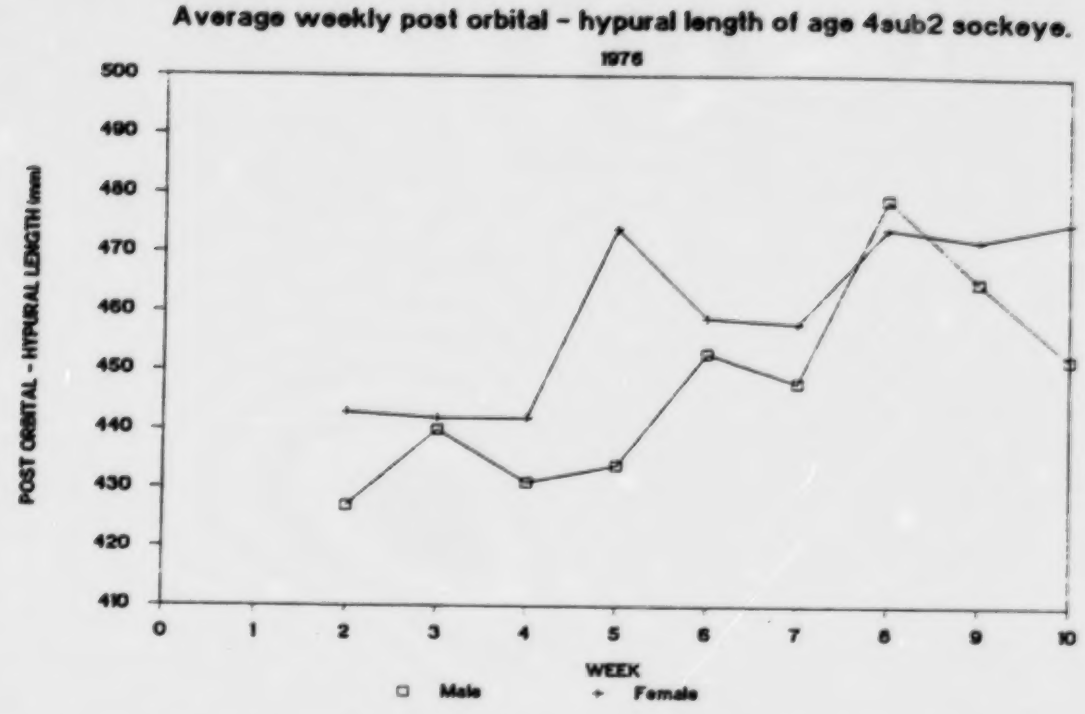


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.



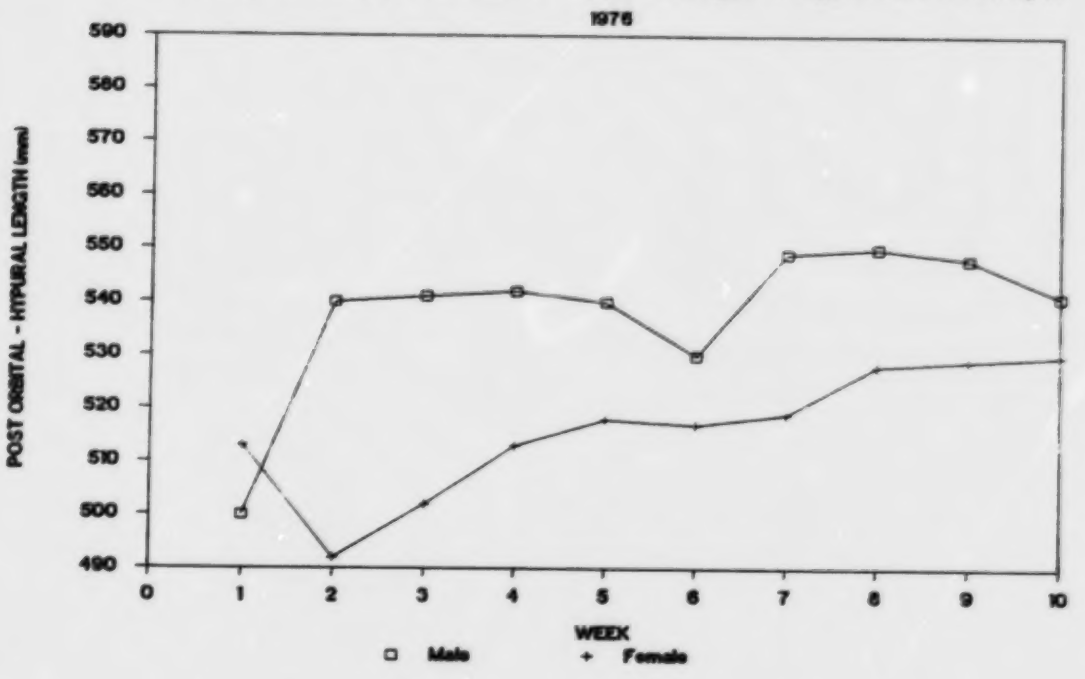


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

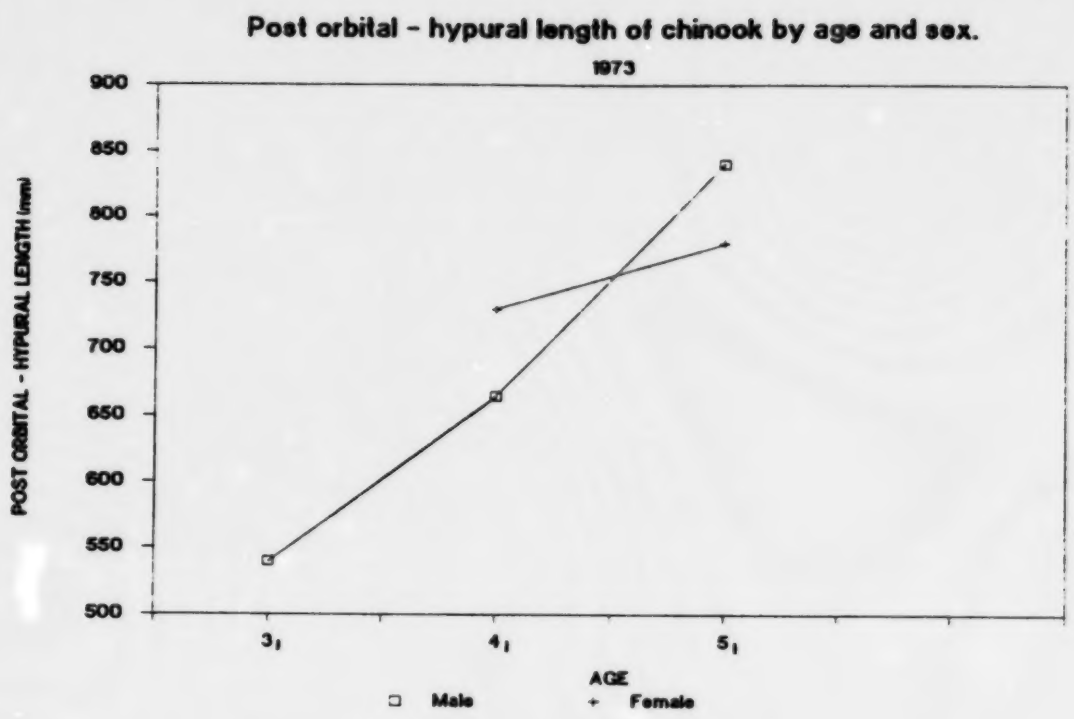
upon the present size of returning adults, as examination of the past 50 years' data will attest to.

Chinook - Length data from the Skeena test fishing catch of chinook salmon seems to indicate a differential growth rate for the two sexes. Females grow faster initially, but from their second year at sea, the rate of growth of the males becomes accelerated until the fourth, when the males are actually larger than the females (Fig. 10). Consequently, all 6sub2 and 5sub1 males are larger than the females of the corresponding age, while males with three or four years of ocean growth are smaller.

Post-orbital hypural length and fecundity were found to be positively correlated for red-fleshed chinook for the years 1973 to 1975. An analysis of variance showed that the correlation was significant at the 95 percent level. White-fleshed chinooks only showed a significant positive correlation for 1973. Similar data from the 1964 to 1966 test fishery also indicated significant positive correlations for red-fleshed chinook.

Fecundity

Fecundity samples have been taken annually on the test fishery since 1973. Average fecundities and post-orbital hypural length regression equations are listed in Table 12 for all species, except sockeye. Sockeye fecundity samples are taken each year at both the Pinkut and Fulton spawning channel sites, making sampling at the test fishing site unnecessary. Yearly variations in the fecundity counts are small, reflecting small changes in the average size of the fish rather than the real changes in fecundity.



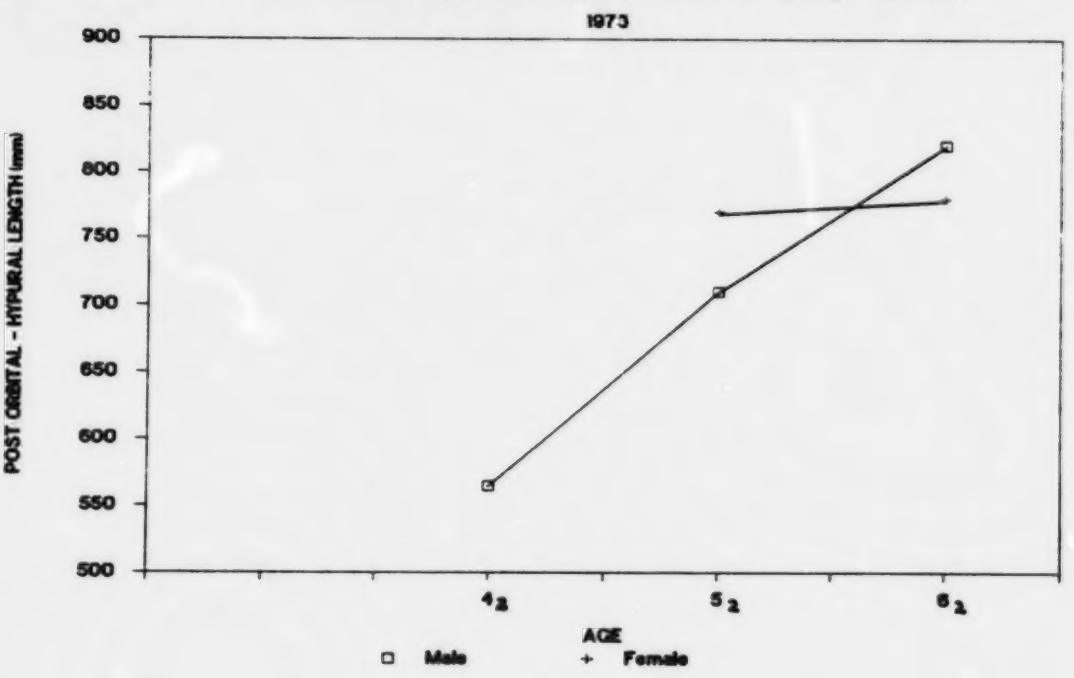
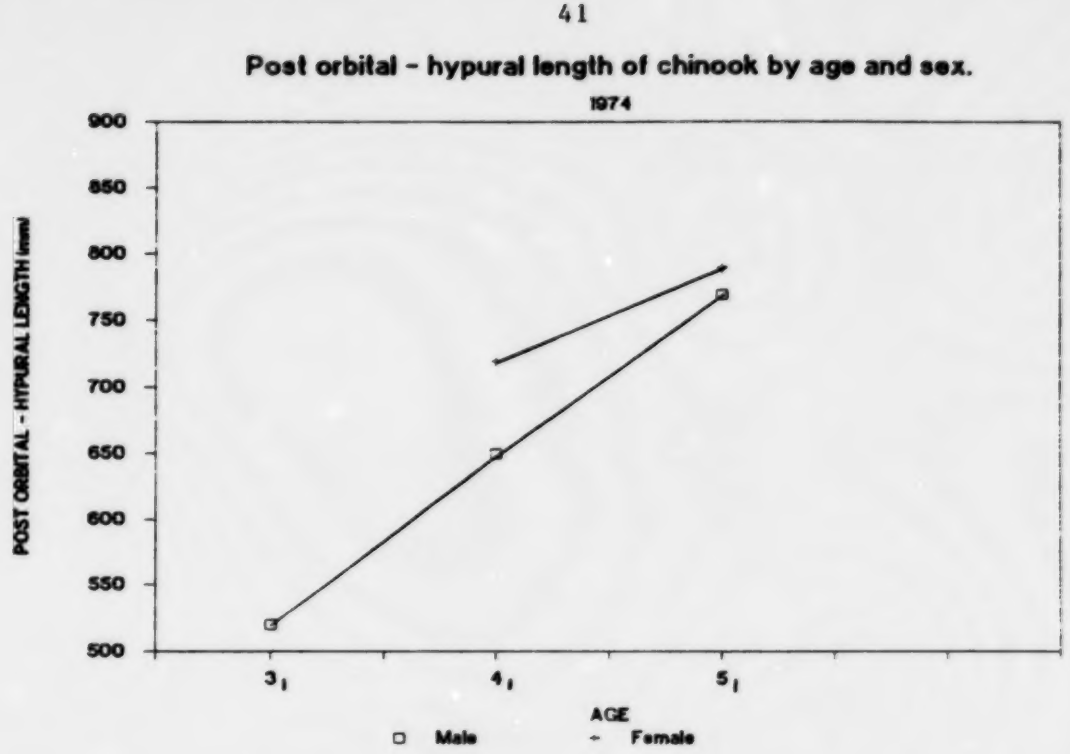


Figure 10. Post orbital - hypural length of chinook by age and sex (1973-1976).



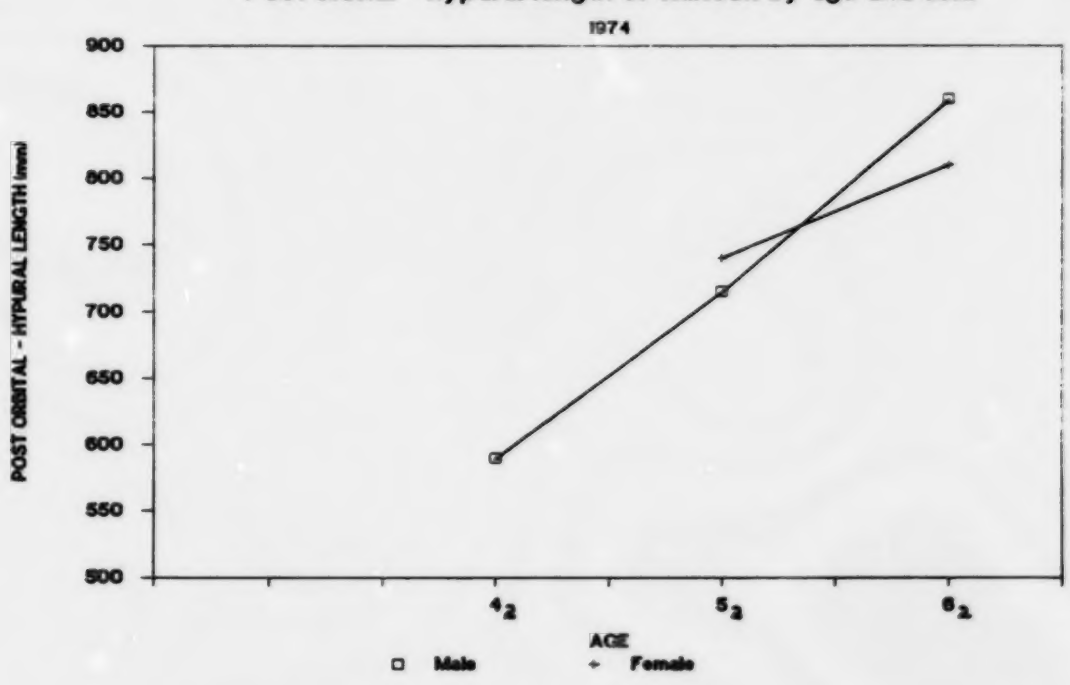
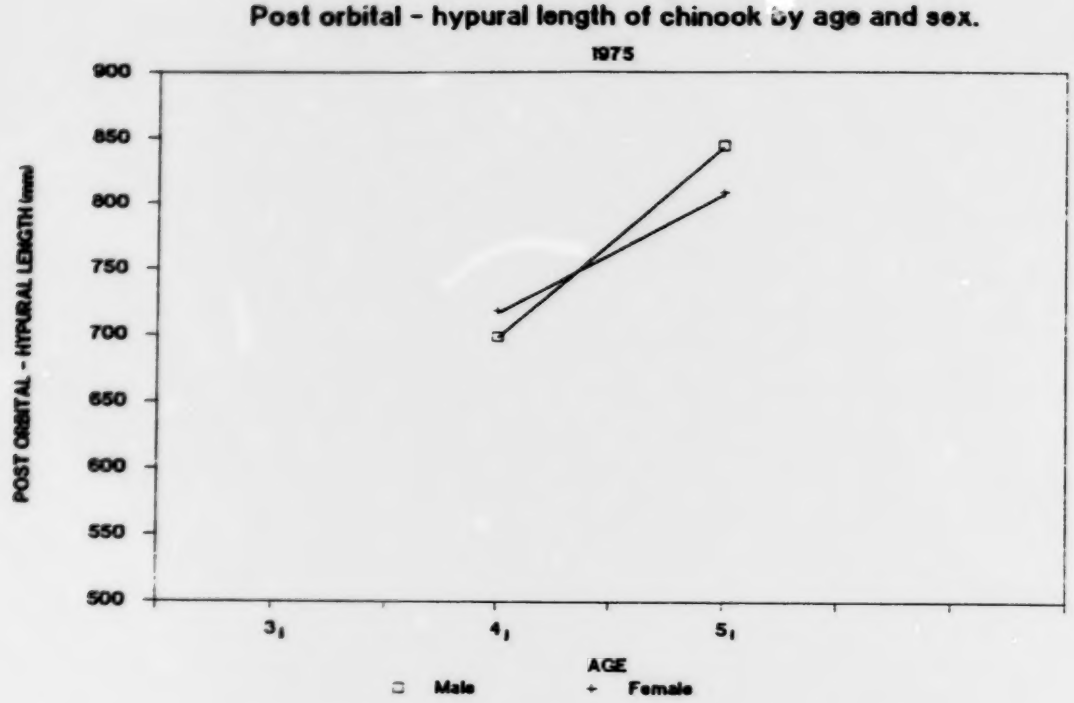


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).



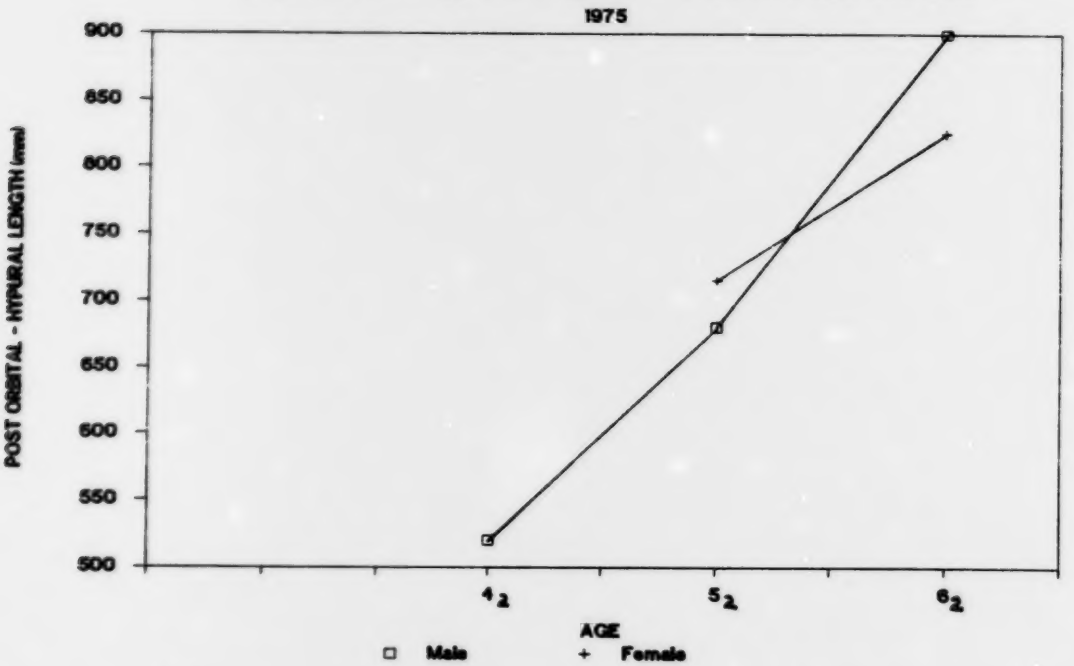
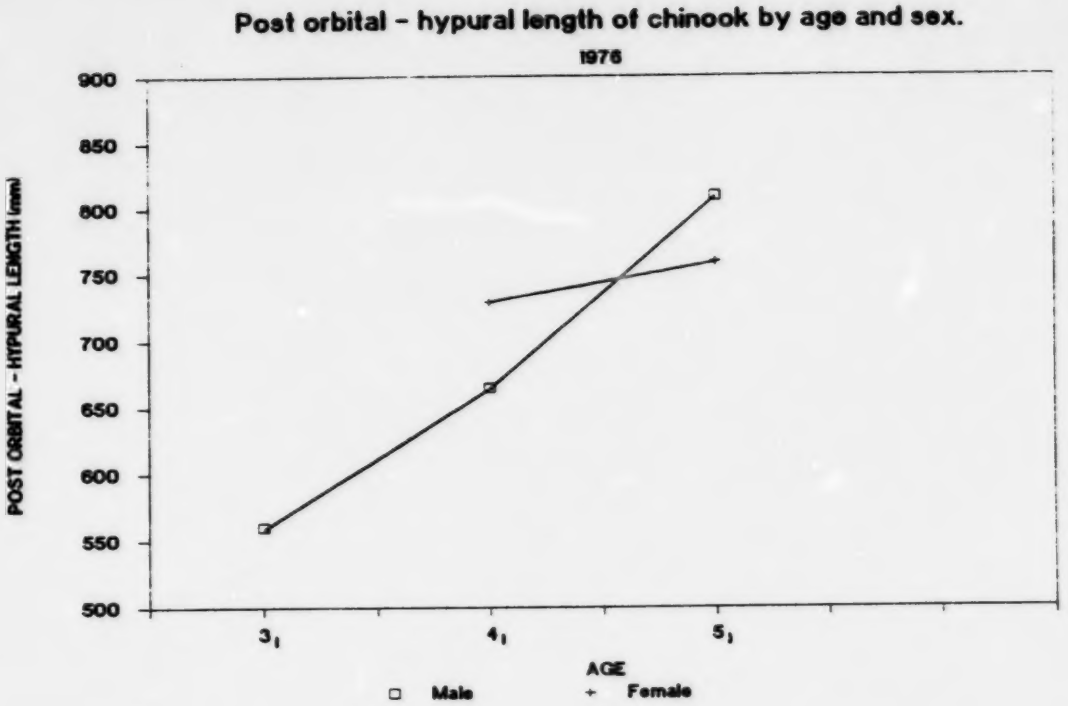


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).



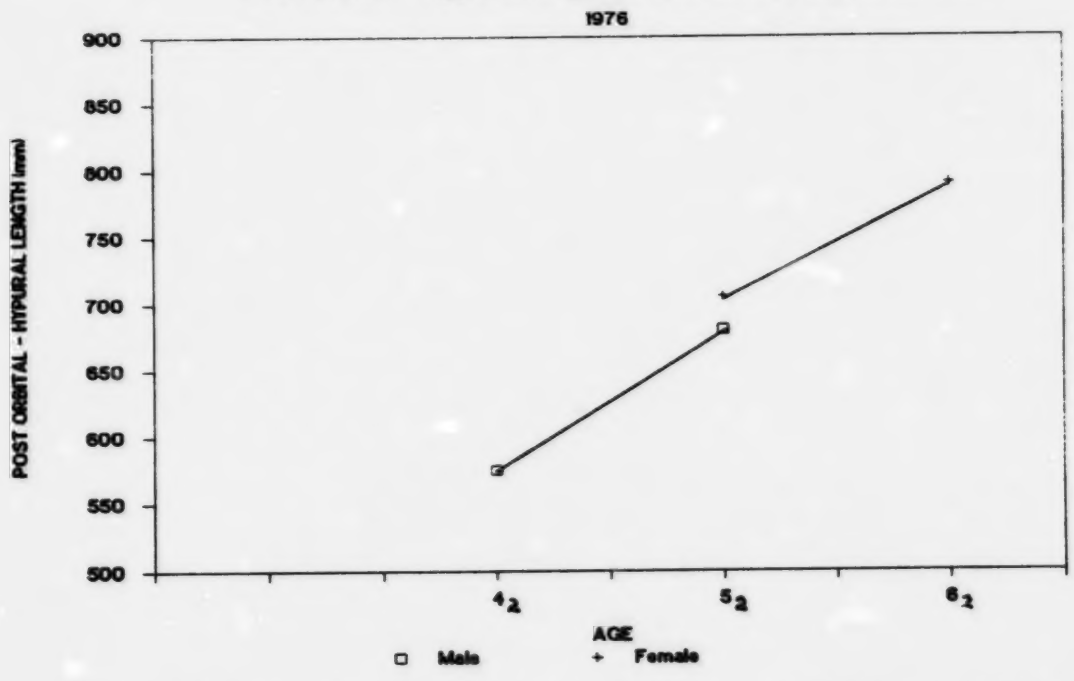


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).

Table 12. Regression[1] of Log Egg Count on Log Orbit-Hypural Length (mm). 1964-66, 1973-75.

YEAR	SPECIES	N	r	a	b	SE_b	$\bar{L}$	$\bar{F}$
1964	Chinook red	72	0.5865	-1.7877	1.9375	0.3197	772	6419
1965	Chinook red	9	0.8442	-4.4030	2.8918	0.6820	761	6097
1966	Chinook red	74	0.7149	-2.1996	2.0859	0.2404	769	6608
1964-66	Chinook red	155	0.6563	-2.0865	2.0436	0.1899	770	6490
1964	Chinook White	8	0.8370	-1.0894	1.7285	1.3477	842	9267
1965	Chinook White	2						8217
1966	Chinook White	10	0.7084	0.3905	1.2218	1.2568	838	9162
1964-66	Chinook White	20	0.7467	-0.3504	1.4730	0.9037	843	9109
1973	Chinook red	49	0.4442	0.4170	1.1872*[2]	0.3493	744	6704
1974	Chinook red	61	0.3969	0.6323	1.1063*	0.3331	743	6434
1975	Chinook red	95	0.7114	-1.0453	1.6908*	0.1732	766	6774
1973-75	Chinook red	205	0.5468	0.6643	1.3904*	0.1490	754	6656
1973	Chinook White	16	0.5973	1.6473	0.7838*	0.2813	787	8262
1974	Chinook White	12	0.0696	3.2268	0.2372	1.0751	811	8259
1975	Chinook White	10	0.3745	1.3074	0.8927	0.7814	810	8016
1973-75	Chinook White	38	0.3627	1.9221	0.6753*	0.2934	801	8162
1973	Coho	37	0.2685	0.8163	0.9984	0.6054	537	3483
1974	Coho	23	0.3775	0.6655	1.0538	0.5640	539	3498
1975	Coho	28	0.5426	-2.7780	2.3142*	0.7026	524	3281
1973-75	Coho	88	0.3877	-0.2527	1.3887*	0.3560	533	3421
1973	Chum	29	-0.1508	4.8819	-0.4647	0.5864	632	3805
1974	Chum	30	0.6763	-0.8303	1.5609*	0.3213	634	3499
1975	Chum	8	0.6679	0.7015	1.0143	0.4614	591	3255
1973-75	Chum	67	0.3560	1.1199	0.8706*	0.2835	628	3597
1973	Pink	11	0.1849	2.4623	0.2913	0.5162	421	1686
1974	Pink	44	0.3913	0.9688	0.8651*	0.3140	414	1709
1975	Pink	28	0.0558	2.6720	0.1968	0.6901	421	1544
1973-75	Pink	83	0.2333	1.6890	0.5831*	0.2700	417	1648

[1] Log Fecundity = a + b Log Length.
[2] Siginificant ($P<0.05$) ANOVAR.

APPENDIX 2. Documentation of Department of Fisheries and Oceans Invitation to Tender and contract arrangement for Skeena River gillnet test fishery.

Fisheries and Oceans | Pêches et océans

INVITATION TO TENDER

SEALED TENDERS, addressed to the A/Head Contracts Section, Materiel Management Division, Department of Fisheries and Oceans, 8th Floor Registry Office, 1090 West Pender Street, Vancouver, BC V6E 2P1 and marked:

TENDER FOR:

SKEENA TEST PROGRAM
VC87-02

will be received up to 2:00 pm local time, May 4, 1987 for the following services:

One gillnet vessel for testfishing on the Skeena River at Tyee. Testfishing to commence on or about the 8th of June 1987 and terminate no later than August 31, 1987; approximately 84 days.

Skipper will also provide biological sampling and record keeping.

The lowest or any bid will not necessarily be accepted. Payment of the service contract is to be from the sale of fish caught during the operation. Bids are to be expressed in pounds of sockeye per day.

Tender forms are available through the Fisheries Office in Prince Rupert or through the Registry office at 1090 West Pender Street, Vancouver. For further information and/or to obtain a copy of the tender form, please call Dave Southgate in Prince Rupert at 624-0468.

A. R. Charette
A/Head Contracts Section
Material Management Division
Pacific Region
Fisheries and Oceans

ARC/ws

Canada

Details and Conditions are as follows:

1. Vessel to be supplied with operator.

2. Fisherman must be fully knowledgeable in commercial gillnetting with a minimum of ten (10) years experience. The fisherman must have fished and be familiar with the area to be tested; Area 4 (Skeena River Management units 4-12, 4-15).

3. Fisherman will occasionally be requested to assist DFO staff in any additional sampling that may be required.

4. a) Fisherman will be responsible for delivery of catch to the processing plant of his choice. (i.e. fisherman will provide ice boxes/suitable vehicle or arrange for delivery of catch with a packer at his expense.) Copies of delivery slips must be give to DFO personnel after each delivery.

   b) No off sales of fish at the test site will be permitted.

   c) In the case of private sales, the fisherman is required to supply DFO with receipts.

5. a) Fisherman must be prepared to work at any hour of the day or night. A minimum of two (2) and usually three (3) one hour sets are required during each 24 hour period.

   b) Extra sets may be required at the discrtetion of DFO personnel.

6. All nets and lines will be supplied by DFO. (Fisherman may have to repair test nets periodically.

7. Vessel Requirements:

   a) Vessel must conform fully with M.O.T. safety regulations and be in excellent overall condition.

   b) Radar is required.

   c) The test fisherman will be required to supply all fuel, water, lubricants, etc.

   d) The vessel must have ample room behind the drum for two (2) persons to tag and sample, if required.

8. Deckhand Requirements:

   a) Must have previous experience in salmon gillnetting (minimum 2 years).

   b) Some knowledge and ability in the following sampling techniques on salmonids: species identification, scale removal, fin clipping, lengths, sexing, electrophoretic sampling, otoliths, fecundity, spaghetti and petersondisc tagging.

   c) Must be able to keep neat, accurate records.

GENERAL

1. The Department of Fisheries will be responsible for installation and removal of the test float.

2. The Department of Fisheries will supply all necessary sampling equipment.

3. The test fisherman must demonstrate an ability and willingness to communicate his interpretation of stock habits to DFO representatives only. Discretion must be used when communicating on private frequencies.

4. Test fisherman will carry out all necessary sampling before he proceeds with the removal of catch. A program outline will be provided for the test fisherman and he/she will be required to follow the guide closely.

5. Test fisherman will not be eligible to enter the commercial fishery while on charter to DFO.

6. Test fisherman must have valid 1987 "A" license.

7. In the event of a shortfall, sockeye prices will be based on the 1987 average landed value as determined by DFO through consultation with industry. Other species will be converted to sockeye equivalent. (Prices for other species will also be based on the 1987 average landed value.)

8. Cost of relaying information daily to the DFO offices (telephone calls) are to be borne by test fisherman.

9. Services will be for a minimum of twenty (20) days and a maximum of one hundred (100) days.

10. At the conclusion of the charter, a written performance appraisal will be completed.

Department of Fisheries
Fisheries Management
1090 West Pender Street
Vancouver, B.C.
V6E 2P1

OFFER TO TESTFISH - TENDER FORM

I/we the undersigned, hereby offer the following gillnet vessel to partake in the area _____test fishing in accordance with the terms and conditions attached:

1) Name of Vessel_____.

2) Name(s) of Owner(s)_____.

3) Address of Owner(s)_____.

4) Location of vessel (for inspection purposes)_____.

5) Name of Operator_____.

6) Number of years licensed salmon fishing experience_____.

7) a) Number of years fished in Area 4_____.

b) Number of years fished in Skeena River (management unit 4-12, 4-15)

_____.

8) Previous Test Fishing experience inside Test area_____.

9) Previous Test Fishing experience outside Test area_____.

10) Vessel length_____ Beam_____.

11) Vessel construction - Material_____.

12) Vessel construction - Date_____.

13) Expiry date of MOT inspection_____.

14) Gross tonnage_____ Registered tonnage_____.

15) Engine make_____ H.P._____.

16) Fuel type_____.

17) Cruising speed_____.

18) Radiotelephone(s): Make_____.

19) Radar (make)_____ Sounder (model)_____.

20) Life saving equipment carried_____.

21) Service to commence and terminate at_____.

22) Deckhand:

a) Number of years fishing as gillnet deckhand_____.

b) Sampling experience (use Deckhand Requirement section as guide)_____

_____.

23) Bid on rate per day to be expressed in pounds of sockeye

_____.

24) Signature(s) of registered Owner(s)_____.

Date_____.

APPENDIX 3. Biological sampling instructions for the Skeena River gillnet test fishery.

The primary purpose of the Skeena River gillnet test fishing operation located at Tyee is to obtain an escapement estimate of returning salmon and steelhead that have passed through the gauntlet of commercial fisheries. This sampling also provides invaluable information on species composition and morphology of returning fish.

All five species of Pacific salmon and steelhead trout are sampled at the test fishing site. The sampling procedure, sampling characteristics and data requirements specific for each species is provided:

a) Sampling data is recorded initially in waterproof field books and later transcribed in sample books. Information for each species is kept in separate books. The samples are to be in **consecutive number**. The **date** and **set number** are to be recorded with the first sample taken from each set.

b) **Hypural length** - The length in millimeters from the posterior orbit of the eye to the hypural plate. Hypural lengths will be recorded for all species.

c) **Fork length** - The length in millimeters from the tip of the snout to the fork of the tail. Fork lengths are required for all species.

d) **Sex** - The sex of all fish can be determined by examination through a slit cut along the mid-line of the abdomen. This will be recorded as F or for female and M or for male.

e) **Scale samples** - Scale samples should be removed from each fish with forceps. These are to be placed in gummed scale books. The scale samples should be taken from the preferred area as illustrated in Figures 1 and 2. In the event the preferred scale is missing or regenerated, another scale from the preferred area may be taken in its place. Wherever possible, the scales should be taken from the left side of the fish. For sockeye and chum salmon two scales are sampled while for chinook, coho and steelhead five scales are removed.

f) **Flesh colour** - The flesh colour (red, pink or white) should be noted for all chinook sampled.

g) **Maturity** - A note should be made if any sampled fish are in a spawned out condition. Some spawned out steelhead may be expected early in the season, whereas spawned out chinook and pink may be expected late in the season.

The numbers of each species to be sampled and sampling characteristics are as follows:

(i) **Large sockeye salmon.** The objective is to obtain 210 samples per week (1700 hrs. Sunday to 1659 hrs. the following Sunday). Sampling should be spread out as evenly as possible (30 per day) throughout the week. It should be noted that test fishery catches will likely be much lower when commercial fisheries directed on Skeena fish are underway than during the closed period. Hypural and nose - fork length and the

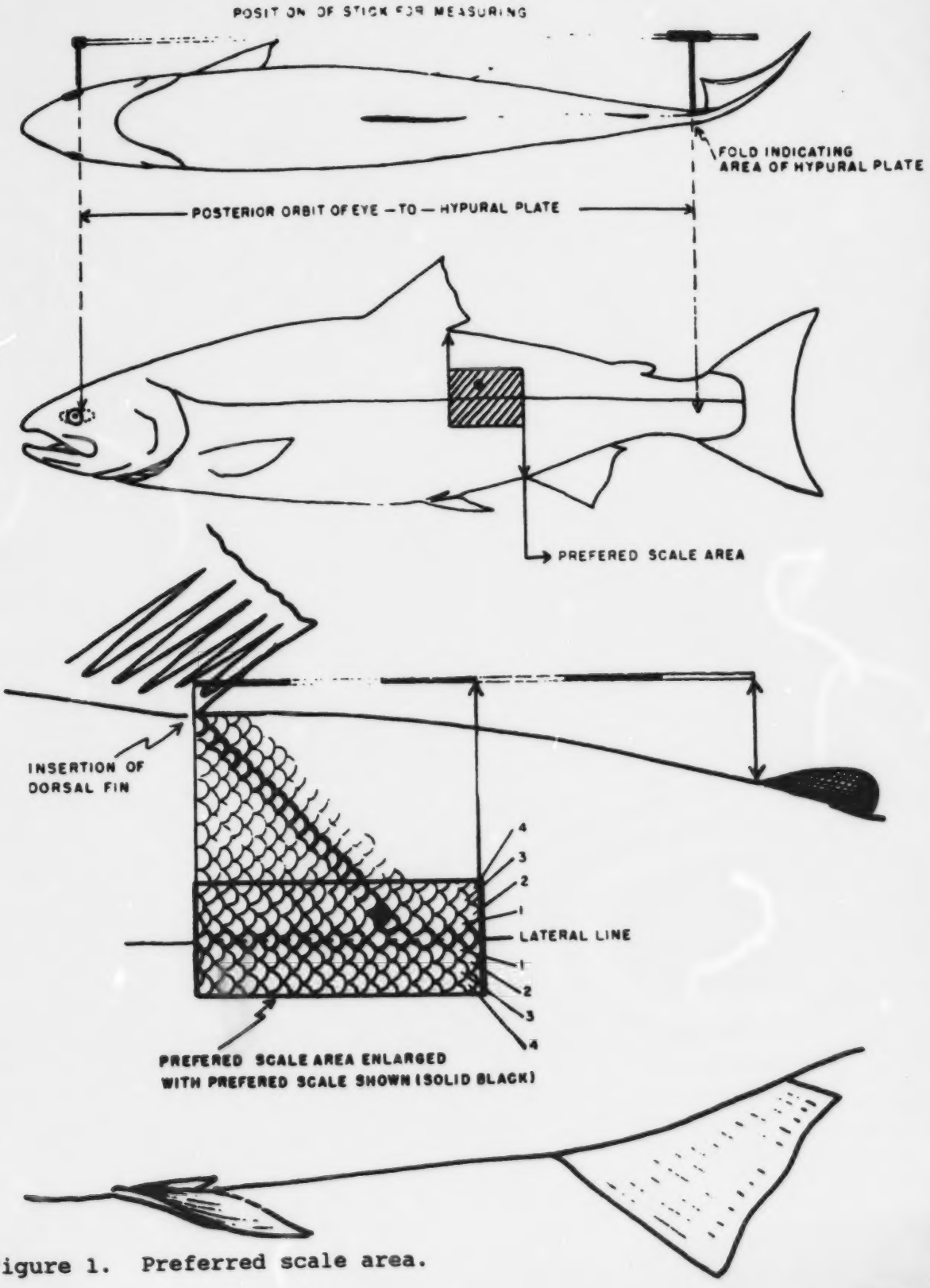


Figure 1. Preferred scale area.

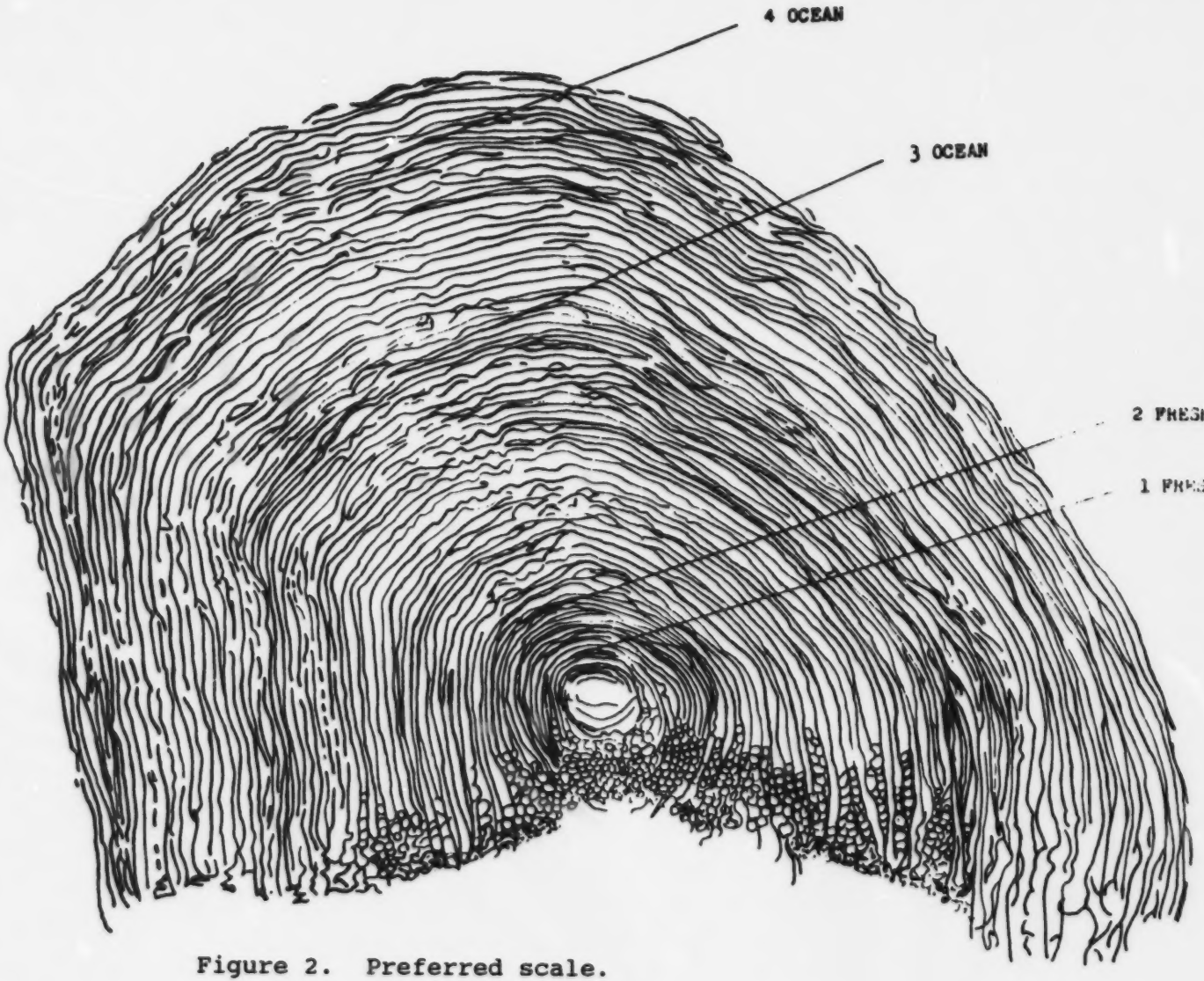


Figure 2. Preferred scale.

sex of each fish sampled should be recorded and scale samples taken.

(ii) **Jack sockeye salmon.** All jack sockeye (sockeye with a **fork length** of 43 centimeters or less) should be killed and sampled. The hypural length and the sex of each fish should be recorded and scale samples taken.

(iii) **Coho salmon.** Hypural length, fork length and sex of each fish should be recorded from all fish which die in the net. Five scale samples should be removed from each fish as well.

(iv) **Pink salmon.** The objective is to obtain length and sex information from 175 fish each week (1700 hrs. Sunday to 1659 hrs. the following Sunday). These fish should be taken at a rate of 25 per day.

(v) **Chum salmon.** All chum salmon which die in the gillnet should be sampled. The hypural and nose - fork lengths and sex of each fish should be recorded and scale samples taken.

(vi) **Chinook salmon.** Up to 10 chinook per day should be sampled. The sampling procedure is similar to that for coho, with the addition of a record of flesh colour (red, pink or white) for each fish sampled.

(vii) **Steelhead trout.** Each fish that dies in the net should be sampled. The hypural and nose - fork lengths and sex of each fish should be recorded and scale samples taken. Gonad development (spawned out, ripe or undeveloped) should also be noted.

The primary purpose of the test fishery is to obtain a daily/weekly escapement estimate for sockeye and pink salmon through comparison of previous years catch/escapement indices. Catches of chinook, coho, chum and steelhead are too small to give a reliable estimate but can be used to indicate relative abundance by comparing to indices from previous years. The secondary purpose is to sample each species for the above noted parameters.

Commercial salmon fisheries are directed on Skeena River sockeye and pink stocks. Sampling data for these species is therefore of greatest importance but information on all species is collected and is utilized. Gillnet catches are greatest during the peak of sockeye and pink upriver migration and correspondingly increases the time required for sampling net catches. If time constraints require a reduction in catch sampling, coho and chinook data may be limited to those fish which are found dead in the gillnet. If sampling time continues to be onerous, coho and chinook information can be further reduced to recording only hypural length and sex of each fish and collection of scale samples.

APPENDIX 4. Skeena test fishery daily catch information, 1987.

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JUNE 9	1	18	35	19	35	62.5	0	0	0	0	0	0	0	0
		18	42	19	47									
	2	7	40	8	40	66	0	0	6	1	0	0	0	1
		7	46	8	58									
	3	11	55	12	55	64	0	0	1	0	0	0	0	0
		12	0	13	8									
JUNE 10	1	19	30	20	30	65	1	0	5	0	0	0	0	4
		19	36	20	46									
	2	8	25	9	25	67	0	0	3	0	0	0	0	0
		8	31	9	45									
	3	12	35	13	35	65	0	0	1	0	0	0	0	0
		12	41	13	51									
JUNE 11	1	20	5	21	5	68	0	0	1	0	0	0	0	0
		20	11	21	27									
	2	9	25	10	25	81.5	2	0	4	0	0	0	0	0
		9	32	11	15									
	3	13	25	14	25	67	2	0	1	1	0	0	0	0
		13	31	14	45									
JUNE 12	1	10	15	11	15	72.5	0	0	5	0	0	0	0	0
		10	20	11	45									
	2	14	5	15	5	70.5	0	0	0	0	0	0	0	0
		14	11	15	32									
JUNE 13	1	10	58	11	58	70.5	1	0	14	1	0	0	0	1
		11	4	12	25									
	2	15	5	16	5	68	0	0	7	0	0	0	0	2
		15	11	16	27									
JUNE 14	1	11	45	12	45	64	2	0	1	1	0	0	0	2
		11	50	12	58									
	2	16	5	17	5	63.5	2	0	3	0	0	0	0	1
		16	10	17	17									
JUNE 15	1	12	30	13	30	70	0	0	11	2	0	0	0	0
		12	35	13	55									
JUNE 16	1	16	50	17	50	67	3	0	2	0	0	0	0	1
		16	56	18	10									
	2	4	30	5	30	68.5	1	0	11	0	0	0	0	0
		4	35	5	52									
	3	13	18	14	18	65.5	2	0	9	1	0	0	0	0
		13	24	14	35									
JUNE 17	1	17	40	18	40	65	0	0	2	1	0	0	0	0
		17	45	18	55									
	2	5	25	6	25	64	3	0	3	0	0	0	0	0
		5	31	6	39									
	3	14	5	15	5	69.5	11	0	12	0	0	0	0	1
		14	11	15	30									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JUNE 18	1	18	35	19	35	63.5	3	0	0	0	0	0	0	0
		18	41	19	48									
	2	6	15	7	15	66	5	0	5	0	0	0	0	0
		6	20	7	32									
	3	14	45	15	45	64.5	2	0	3	0	0	0	0	2
		14	51	16	0									
JUNE 19	1	19	30	20	30	64.5	4	0	5	0	0	0	0	3
		19	35	20	44									
	2	7	30	8	30	64	4	0	0	0	0	0	0	1
		7	35	8	43									
	3	15	30	16	30	72	3	0	18	2	0	0	0	4
		15	36	17	0									
JUNE 20	1	4	35	5	35	68.5	3	0	6	1	0	0	0	4
		4	41	5	58									
	2	8	40	9	40	66.5	2	0	5	0	0	0	0	1
		8	45	9	58									
	3	16	35	17	35	68	3	0	9	0	0	0	0	4
		16	40	17	56									
JUNE 21	1	5	38	6	38	65	3	0	4	2	0	0	0	1
		5	43	6	53									
	2	9	43	10	43	63.5	4	0	3	1	0	0	0	0
		9	48	10	55									
JUNE 22	1	17	40	18	40	65	3	0	2	0	0	0	0	2
		17	45	18	55									
	2	6	35	7	35	69	2	0	9	0	0	0	0	1
		6	40	7	58									
	3	10	48	11	48	65.5	3	0	3	0	0	0	0	1
		10	54	12	5									
JUNE 23	1	18	30	19	30	71.5	7	0	18	0	0	0	0	3
		18	35	19	58									
	2	7	40	8	40	69.5	5	0	6	1	0	0	0	2
		7	45	9	4									
	3	11	50	12	50	69	1	0	3	1	0	0	0	0
		11	55	13	13									
JUNE 24	1	19	40	20	40	70	1	0	1	0	0	0	0	0
		19	45	21	5									
	2	8	30	9	30	69.5	0	0	13	3	0	0	0	0
		8	35	9	54									
	3	12	35	13	35	74.5	3	0	6	0	0	0	0	0
		12	41	14	10									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JUNE 25	1	20	30	21	30	71	7	0	7	0	0	0	0	0
		20	36	21	58									
	2	9	10	10	10	69.5	5	0	12	1	0	0	0	0
		9	15	10	34									
	3	13	25	14	25	68	10	0	4	2	0	0	0	0
		13	30	14	46									
JUNE 26	1	9	50	10	50	69.5	10	0	14	1	0	0	0	1
		9	55	11	14									
	2	14	15	15	15	68.5	10	0	8	1	0	0	0	0
		14	20	15	37									
JUNE 27	1	10	20	11	20	70.5	10	0	11	1	0	0	0	4
		10	25	11	46									
	2	14	50	15	50	65	14	0	5	3	0	0	0	1
		14	55	16	5									
JUNE 28	1	10	55	11	55	66.5	5	0	6	0	0	0	0	0
		11	0	12	13									
	2	15	35	16	35	68.5	27	0	9	1	0	0	0	6
		15	40	16	57									
JUNE 29	1	11	40	12	40	66.5	10	0	4	0	0	0	0	1
		11	45	12	58									
	2	15	55	16	55	69	23	0	2	0	0	0	0	4
		16	0	17	18									
JUNE 30	1	3	20	4	20	65.5	3	0	3	0	0	0	0	0
		3	25	4	36									
	2	12	20	13	20	71.5	16	1	5	1	0	0	0	0
		12	27	13	50									
	3	16	25	17	25	65.5	1	0	3	0	0	0	0	0
		16	31	17	42									
JULY 1	1	3	55	4	55	64.5	3	0	3	0	0	0	0	0
		4	0	5	9									
	2	12	50	13	50	65.5	1	0	2	0	0	0	0	0
		12	56	14	7									
JULY 2	1	16	45	17	45	71.5	6	0	6	0	0	0	0	0
		16	50	18	13									
	2	4	30	5	30	73	3	0	8	1	0	0	0	0
		4	35	6	1									
	3	13	28	14	28	66.5	0	0	9	0	0	0	0	0
		13	35	14	48									
JULY 3	1	17	20	18	20	75	2	0	6	2	0	0	0	2
		17	25	18	55									
	2	5	15	6	15	65.5	0	0	8	0	0	0	0	0
		5	20	6	31									
	3	14	20	15	20	68	10	0	9	0	0	0	0	2
		14	25	15	41									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JULY 4	1	18	0	19	0	64.5	6	0	4	0	0	0	0	0
		18	5	19	14									
	2	6	10	7	10	66.5	7	0	4	0	0	0	0	0
		6	15	7	28									
	3	14	55	15	55	64.5	9	0	8	0	0	0	0	0
		15	0	16	9									
JULY 5	1	18	50	19	50	68.5	14	0	8	0	0	0	0	2
		18	55	20	12									
	2	3	58	4	58	64.5	2	0	8	0	0	0	0	0
		4	3	5	12									
	3	7	20	8	20	65.5	9	0	2	1	0	0	0	0
		7	25	8	36									
	4	15	55	16	55	65	10	0	10	1	0	0	0	1
		16	0	17	10									
JULY 6	1	19	50	20	50	67	34	1	4	1	0	0	0	0
		19	55	21	9									
	2	4	55	5	55	69.5	6	0	7	1	0	0	0	0
		5	0	6	19									
	3	8	51	9	51	66	3	0	5	1	0	0	0	0
		8	56	10	8									
	4	16	40	17	40	66	2	0	5	0	0	0	1	0
		16	45	17	57									
JULY 7	1	20	50	21	50	66	9	0	2	0	0	0	0	0
		20	55	22	7									
	2	6	5	7	5	69.5	4	0	12	0	0	0	0	0
		6	10	7	29									
	3	9	55	10	55	67.5	24	1	6	0	0	1	0	0
		10	0	11	15									
JULY 8	1	17	40	18	40	67.5	16	1	5	3	0	0	0	0
		17	45	19	0									
	2	6	55	7	55	69	17	0	13	3	0	0	0	0
		7	0	8	18									
	3	11	15	12	15	68.5	14	1	12	0	0	0	0	0
		11	20	12	37									
JULY 9	1	18	55	19	55	69	19	0	5	2	0	0	0	1
		19	0	20	18									
	2	8	0	9	0	73.5	15	0	13	3	0	0	0	0
		8	5	9	32									
	3	12	35	13	35	66.5	13	0	2	2	0	0	0	1
		12	40	13	53									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JULY 10	1	19	55	20	55	66	11	0	5	3	0	0	0	1
		20	0	21	12									
	2	8	45	9	45	74	17	0	22	1	0	0	0	0
		8	50	10	18									
	3	13	35	14	35	68.5	16	0	5	0	0	0	0	0
		13	40	14	57									
JULY 11	1	9	46	10	46	71.5	35	2	7	1	0	1	0	0
		9	51	11	14									
	2	14	16	15	16	72	27	1	2	1	0	0	0	1
		14	21	15	45									
JULY 12	1	10	37	11	37	71	37	0	7	3	0	3	0	1
		10	42	12	4									
	2	15	5	16	5	68.5	11	0	6	0	0	1	0	1
		15	10	16	27									
JULY 13	1	11	20	12	20	71	39	2	5	2	0	0	0	1
		11	25	12	47									
	2	16	10	17	10	66.5	12	0	7	2	0	0	0	0
		16	15	17	28									
JULY 14	1	3	53	4	53	68.5	2	1	4	0	0	0	0	0
		3	58	5	15									
	2	12	0	13	0	69.5	29	0	10	3	0	3	0	1
		12	5	13	24									
	3	16	45	17	45	64.5	9	0	5	0	0	2	0	0
		16	50	17	59									
JULY 15	1	4	40	5	40	70	12	1	7	2	0	0	0	0
		4	45	6	5									
	2	12	40	13	40	77	54	2	14	8	1	5	0	2
		12	44	14	18									
JULY 16	1	17	23	18	23	69	14	1	6	3	0	1	0	0
		17	28	18	46									
	2	5	8	6	8	66	25	4	6	5	0	0	0	0
		5	13	6	25									
	3	13	31	14	21	58	36	1	5	2	1	8	0	1
		13	37	14	43									
JULY 17	1	18	15	19	15	68.5	40	0	7	3	1	5	0	0
		18	20	19	37									
	2	6	6	7	6	69	28	0	8	0	0	8	1	1
		6	11	7	29									
	3	14	0	15	0	80.5	127	6	5	8	1	44	0	3
		14	5	15	46									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JULY 18	1	18	50	19	50	78.5	156	0	2	4	1	6	0	0
		18	55	20	32									
	2	7	5	8	5	71.5	62	2	6	0	1	23	0	1
		7	10	8	33									
	3	14	30	15	30	83	170	1	0	0	1	55	0	4
		14	35	16	21									
JULY 19	1	19	35	20	35	69.5	65	0	1	2	1	11	0	1
		19	40	20	59									
	2	8	15	9	15	72	60	0	2	2	0	8	0	0
		8	20	9	44									
	3	15	20	16	20	86.5	204	7	2	2	0	89	0	3
		15	26	17	19									
JULY 20	1	4	52	5	52	75	39	5	4	2	0	42	0	0
		4	57	6	27									
	2	9	58	10	58	65.5	21	0	0	1	0	7	0	0
		10	3	11	14									
JULY 21	1	16	41	17	41	70	30	2	1	1	0	27	0	1
		16	46	18	6									
	2	6	6	7	6	71.5	33	2	3	2	2	28	0	0
		6	11	7	34									
	3	11	2	12	7	71	5	0	1	0	0	4	0	0
		11	7	12	24									
JULY 22	1	17	55	18	55	76	39	3	2	0	1	72	0	1
		18	0	19	32									
	2	7	0	8	0	70.5	11	2	5	2	1	14	0	0
		7	5	8	26									
	3	12	1	13	1	63.5	16	1	1	0	0	6	0	0
		12	6	13	13									
JULY 23	1	18	55	19	55	70.5	19	6	2	0	0	36	0	3
		19	1	20	22									
	2	7	50	8	50	73.5	25	3	3	1	1	47	0	1
		7	55	9	22									
	3	12	45	13	45	68.5	7	1	3	0	0	35	0	0
		12	50	14	7									
JULY 24	1	19	35	20	35	68	15	0	1	0	0	37	0	0
		19	40	20	56									
	2	8	30	9	30	79.5	91	9	4	4	1	57	0	0
		8	35	10	14									
	3	13	18	14	18	65.5	18	2	1	0	0	17	0	0
		13	23	14	34									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
JULY 25	1	20	27	21	27	73	36	8	0	1	1	75	0	1
		20	32	21	58									
	2	9	6	10	6	77	58	3	2	1	0	65	0	1
		9	11	10	45									
	3	14	10	15	10	70.5	30	1	2	1	0	45	0	3
		14	15	15	36									
JULY 26	1	9	32	10	32	74	43	1	1	4	3	50	0	1
		9	37	11	5									
	2	14	34	15	34	71	43	1	1	0	2	47	0	2
		14	40	16	2									
JULY 27	1	10	5	11	5	77	50	6	0	1	2	80	0	3
		10	10	11	44									
	2	15	8	16	8	68.5	32	4	1	0	0	24	0	0
		15	13	16	30									
JULY 28	1	10	34	11	34	67.5	23	4	1	1	1	44	0	0
		10	41	11	56									
	2	15	30	16	30	68.5	26	3	1	0	1	87	0	0
		15	35	16	52									
JULY 29	1	3	5	4	5	77.5	48	9	3	0	0	92	1	0
		3	10	4	45									
	2	11	8	12	8	76	60	4	2	1	2	93	0	1
		11	13	12	45									
	3	16	2	17	2	72.5	42	2	0	1	1	56	0	1
		16	7	17	32									
JULY 30	1	3	58	4	58	75.5	67	6	1	2	2	40	0	0
		4	3	5	34									
	2	11	35	12	35	82.5	63	12	0	1	4	93	0	1
		11	40	13	25									
JULY 31	1	16	33	17	33	79.5	47	2	2	0	2	83	2	0
		16	38	18	17									
	2	4	33	5	33	75.5	43	2	1	1	0	86	1	0
		4	38	6	9									
	3	12	5	13	5	107.5	141	54	2	0	2	341	1	5
		12	10	14	45									
AUG 1	1	17	7	18	7	74	30	6	2	0	4	133	0	0
		17	13	18	41									
	2	5	29	6	29	74	22	2	1	0	0	51	1	1
		5	34	7	2									
	3	12	32	13	32	87	50	5	0	1	5	209	0	8
		12	37	14	31									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 2	1	17	38	18	38	79	51	5	1	0	1	98	0	2
		17	43	19	21									
	2	6	7	7	7	77	34	23	1	0	1	85	1	0
		6	12	7	46									
	3	13	25	14	25	86	65	19	0	0	4	143	0	2
		13	30	15	22									
AUG 3	1	18	15	19	15	75	12	5	0	0	1	93	0	0
		18	20	19	50									
	2	6	58	7	58	66.5	8	6	1	0	0	9	2	0
		7	3	8	16									
	3	14	15	15	15	74	9	3	0	0	0	96	1	0
		14	20	15	48									
AUG 4	1	19	15	20	15	66.5	8	2	0	0	0	29	0	0
		19	20	20	33									
	2	8	27	9	27	64	1	0	0	0	0	0	1	0
		8	32	9	40									
	3	15	20	16	20	76.5	15	1	1	0	0	103	0	0
		15	25	16	58									
AUG 5	1	5	8	6	8	73	6	2	0	0	0	76	0	2
		5	13	6	39									
	2	10	2	11	2	62.5	3	0	0	0	0	4	1	0
		10	7	11	12									
	3	16	32	17	29	69	7	4	0	0	2	83	1	0
		16	37	17	58									
AUG 6	1	6	14	7	14	76	18	2	0	0	3	100	1	2
		6	19	7	51									
	2	11	40	12	40	68.5	10	0	0	0	0	51	0	0
		11	45	13	2									
AUG 7	1	18	6	19	6	78.5	22	3	0	0	0	135	0	2
		18	11	19	48									
	2	7	17	8	17	80	26	2	0	0	3	108	2	8
		7	22	9	2									
	3	12	30	13	30	68.5	11	2	2	0	1	22	0	3
		12	35	13	52									
AUG 8	1	19	15	20	15	90	44	6	1	0	1	249	4	10
		19	20	21	20									
	2	8	4	9	4	69.5	17	2	0	0	0	28	0	4
		8	9	9	28									
	3	13	30	14	30	73	14	2	1	0	1	58	0	3
		13	36	15	2									
AUG 9	1	8	58	9	58	67	16	5	0	0	0	15	1	1
		9	3	10	17									
	2	14	20	15	20	66.5	3	6	0	0	0	9	0	0
		14	25	15	38									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 10	1	9	45	10	45	66	8	2	0	0	2	6	0	2
		9	50	11	2									
	2	15	10	16	10	64.5	0	1	0	0	0	26	0	1
		15	15	16	24									
AUG 11	1	10	40	11	40	67	10	3	1	0	0	29	1	1
		10	45	11	59									
	2	15	46	16	46	65.5	0	1	1	0	0	10	0	2
		15	51	17	2									
AUG 12	1	3	50	4	50	64	0	1	0	0	0	2	0	0
		3	55	5	3									
	2	11	5	12	5	68	9	1	0	0	2	19	0	3
		11	10	12	26									
	3	16	10	17	10	65.5	0	1	0	0	0	4	0	1
		16	15	17	26									
AUG 13	1	4	30	5	30	66.5	2	0	0	0	0	13	0	1
		4	35	5	48									
	2	11	35	12	35	69	2	2	0	0	1	6	1	1
		11	40	12	58									
AUG 14	1	16	46	17	46	67.5	1	0	0	0	1	94	0	0
		16	51	18	6									
	2	5	14	6	14	64.5	6	0	0	0	0	19	0	1
		5	19	6	28									
	3	12	14	13	14	75.5	32	7	0	0	2	69	2	2
		12	19	13	50									
AUG 15	1	17	35	18	35	73	14	0	0	0	0	146	0	2
		17	40	19	6									
	2	5	53	6	53	72	13	2	0	0	1	71	1	0
		5	58	7	22									
	3	12	52	13	54	78.5	44	8	0	0	3	111	0	11
		12	59	14	34									
AUG 16	1	18	18	19	18	69.5	12	0	0	0	2	60	0	2
		18	23	19	42									
	2	6	50	7	50	70.5	11	3	0	0	0	28	3	3
		6	55	8	16									
	3	13	20	14	20	74	28	2	0	0	3	72	2	12
		13	25	14	53									
AUG 17	1	19	5	20	5	65.5	6	1	0	0	0	10	1	3
		19	10	20	21									
	2	8	10	9	10	63	1	1	0	0	0	2	0	0
		8	15	9	21									
	3	14	35	15	35	65	2	1	0	0	2	14	2	0
		14	40	15	50									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 18	1	4	14	5	14	68	5	4	0	0	4	32	0	2
		4	19	5	35									
	2	9	42	10	42	63.5	0	0	0	0	0	0	2	2
		9	47	10	54									
	3	16	12	17	12	66	5	0	0	0	1	31	3	1
		16	17	17	29									
AUG 19	1	5	23	6	23	66.5	4	1	0	0	2	26	2	0
		5	28	6	41									
	2	10	41	11	41	63.5	1	0	0	0	0	4	0	0
		10	46	11	53									
AUG 20	1	17	36	18	36	65.5	3	0	0	0	1	23	3	1
		17	41	18	52									
	2	6	26	7	26	66	3	0	0	0	1	23	1	0
		6	31	7	43									
	3	11	44	12	44	63.5	1	0	0	0	0	2	3	0
		11	49	12	56									
AUG 21	1	18	25	19	25	68.5	7	0	0	0	0	33	2	4
		18	30	19	47									
	2	7	22	8	22	67.5	4	0	0	0	2	17	5	4
		7	27	8	42									
	3	12	23	13	23	65	3	0	0	0	0	6	3	2
		12	28	13	38									
AUG 22	1	19	23	20	23	67	8	0	0	0	1	24	0	1
		19	28	20	42									
	2	7	52	8	52	67.5	16	0	0	0	0	30	3	5
		7	57	9	12									
	3	13	11	14	11	64	1	0	0	0	0	8	3	0
		13	16	14	24									
AUG 23	1	8	26	9	26	68	6	1	0	0	1	24	4	4
		8	31	9	47									
	2	13	47	14	47	65.5	12	3	0	0	0	11	1	1
		13	52	15	3									
AUG 24	1	9	4	10	4	69.5	0	0	0	0	1	25	3	5
		9	9	10	28									
	2	14	11	15	11	63.5	0	0	0	0	0	0	1	1
		14	16	15	23									
AUG 25	1	9	31	10	31	65.5	3	0	0	0	2	8	0	1
		9	36	10	47									
	2	14	56	15	56	63	0	0	0	0	0	2	0	0
		15	1	16	7									
AUG 26	1	10	43	11	43	65.5	7	0	0	0	4	22	1	2
		10	48	11	59									
	2	15	26	16	26	64	0	0	0	0	0	1	1	0
		15	31	16	39									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 27	1	10	58	11	58	67	2	0	0	0	0	13	3	2
		11	3	12	17									
	2	15	47	16	47	63.5	0	0	0	0	0	6	0	0
		15	52	16	59									
AUG 28	1	4	38	5	38	64.5	0	0	0	0	0	1	0	0
		4	43	5	52									
	2	12	5	13	5	66	3	0	0	0	0	6	0	0
		12	10	13	22									
	3	16	14	17	14	63.5	0	0	0	0	0	3	2	0
		16	19	17	26									
AUG 29	1	5	20	6	20	65	0	0	0	0	0	0	0	1
		5	25	6	35									
	2	12	37	13	37	67	3	0	0	0	0	4	7	2
		12	42	13	56									
AUG 30	1	5	5	6	5	64.5	0	0	0	0	0	0	1	0
		5	10	6	19									
	2	11	54	12	54	66	6	0	0	0	0	4	3	1
		11	59	13	11									
AUG 31	1	17	5	18	5	65.5	0	0	0	0	0	0	0	0
		17	10	18	21									
	2	5	50	6	50	65.5	0	0	0	0	0	0	0	0
		5	55	7	6									
	3	12	33	13	33	65.5	0	0	0	0	0	1	3	1
		12	38	13	49									
SEPT 1	1	17	48	18	48	65.5	0	0	0	0	0	0	1	0
		17	53	19	4									
	2	6	54	7	54	64	0	0	0	0	0	0	0	0
		6	59	8	7									
	3	13	35	14	35	67	0	0	0	0	0	3	1	0
		13	40	14	54									
SEPT 2	1	8	17	9	17	60	0	0	0	0	2	13	2	0
		8	22	9	22									
	2	15	6	16	6	72	3	0	0	0	15	32	0	6
		15	11	16	35									
SEPT 3	1	11	2	12	2	67	0	0	0	0	5	21	2	5
		11	7	12	21									
SEPT 4	1	16	50	17	50	70.5	0	0	0	0	12	17	2	8
		16	55	18	16									
	2	6	2	7	2	74.5	0	0	0	0	26	9	3	20
		6	7	7	36									

DATE	SET #	SET TIME HRS	SET TIME MIN	PICK TIME HRS	PICK TIME MIN	FISHING TIME (MIN)	CATCH IN PIECES LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
SEPT 5	1	18	5	19	5	73.5	0	0	0	0	11	1	2	14
		18	10	19	37									
	2	7	5	8	5	67.5	0	0	0	0	4	2	3	5
		7	11	8	26									
	3	12	20	13	20	65	1	0	0	0	4	4	1	4
		12	25	13	35									
SEPT 6	1	19	5	20	5	68.5	1	0	0	0	2	3	5	8
		19	10	20	27									
	2	7	56	8	56	68	0	0	0	0	8	1	2	11
		8	1	9	17									
	3	13	20	14	20	66	0	0	0	0	2	0	2	1
		13	25	14	37									
						TOTAL =	3828	353	720	137	194	5398	122	336

APPENDIX 5. 1987 Prince Rupert region daily tide table.

PRINCE RUPERT (PST)

1987

JUNE-JUIN

Day	Time	Ht ft	Ht m	Day	Time	Ht ft	Ht m
1	0345	16.4	5.0	16	0425	20.8	6.2
	1030	4.8	1.5		1100	2.8	0.8
MO	1655	16.7	5.1	TU	1735	19.0	5.8
LU	2230	9.8	3.0	MA	2300	7.4	2.3
2	0425	17.8	5.4	17	0525	19.2	5.9
	1115	4.3	1.7		1155	3.6	1.2
TU	1745	16.4	5.0	WE	1830	18.9	5.8
MA	2325	10.1	3.1	ME			
3	0520	18.7	5.1	18	0035	7.3	2.2
	1200	4.1	1.9		0630	17.8	5.5
WE	1835	16.4	5.0	TH	1250	5.2	1.6
ME				JE	1930	18.9	5.8
4	0030	10.0	3.0	19	0150	6.8	2.1
	0620	18.1	4.9		0745	18.8	5.1
TH	1245	4.7	2.0	FR	1350	6.5	2.0
JE	1930	18.7	5.1	VE	2030	19.8	5.8
5	0140	8.4	2.6	20	0255	6.3	1.9
	0725	19.0	4.8		0855	19.3	5.0
FR	1345	7.3	2.2	SA	1450	7.5	2.3
VE	2035	17.4	5.3	SA	2125	19.3	5.9
6	0245	6.3	2.5	21	0355	5.6	1.7
	0840	19.7	4.8		1005	19.3	5.0
SA	1440	7.6	2.3	SU	1555	6.2	2.5
SA	2110	18.3	5.6	DI	2215	19.8	6.0
7	0345	6.8	2.1	22	0450	4.7	1.4
	0950	18.1	4.9		1110	18.8	5.1
SU	1535	7.7	2.3	MO	1650	6.8	2.6
DI	2155	18.3	5.9	LU	2300	19.8	6.0
8	0435	5.3	1.6	23	0540	4.0	1.2
	1050	18.8	5.1		1205	17.1	5.2
MO	1630	7.7	2.3	TU	1740	8.7	2.7
LU	2240	20.4	6.2	MA	2340	20.0	6.1
9	0525	3.7	1.1	24	0625	3.5	1.1
	1147	17.8	5.4		1245	17.5	5.3
TU	1720	7.8	2.3	WE	1820	8.7	2.7
MA	2325	21.4	6.5	ME			
10	0610	2.3	.7	25	0020	20.2	6.2
	1240	18.4	5.6		0705	3.2	1.0
WE	1805	7.4	2.3	TH	1330	17.8	5.4
ME				JE	1900	8.6	2.6
11	0010	22.3	6.8	26	0100	20.2	6.2
	0700	1.2	.4		0745	3.1	.9
TH	1325	19.0	5.8	FR	1415	17.9	5.5
JE	1955	7.2	2.2	VE	1935	8.5	2.6
12	0055	22.8	6.9	27	0135	20.1	6.1
	0745	.9	.2		0820	3.1	.9
FR	1410	19.3	5.9	SA	1440	18.0	5.5
VE	1945	7.1	2.2	SA	2010	8.8	2.6
13	0140	22.8	7.0	28	0215	19.9	6.1
	0835	.4	.1		0855	3.2	1.0
SA	1500	19.5	5.9	SU	1515	17.9	5.5
SA	2035	7.0	2.1	DI	2050	8.5	2.6
14	0230	22.5	6.9	29	0250	19.5	5.9
	0925	.7	.2		0930	3.6	1.1
SU	1550	19.4	5.9	MO	1545	17.8	5.4
DI	2125	7.1	2.2	LU	2130	8.5	2.6
15	0330	21.7	6.6	30	0325	18.9	5.8
	1010	1.4	.4		1005	4.0	1.2
MO	1640	19.2	5.9	TU	1625	17.7	5.4
LU	2225	7.3	2.2	MA	2210	8.6	2.6

JULY-JUILLET

Day	Time	Ht ft	Ht m	Day	Time	Ht ft	Ht m
1	0415	18.8	5.5	16	0505	19.8	5.9
	1040	4.6	1.4		1120	4.1	1.2
WE	1700	17.8	5.4	TH	1750	18.8	6.1
ME	2255	8.8	2.6	JE			
2	0450	17.4	5.3	17	0015	6.8	1.8
	1115	5.4	1.6		0600	17.8	5.4
TH	1740	17.7	5.4	FR	1215	6.9	1.9
JE	2350	8.5	2.6	VE	1840	18.3	5.9
3	0540	16.8	5.0	18	0110	6.2	1.9
	1155	6.3	1.9		0705	16.2	4.9
FR	1825	17.8	5.4	SA	1300	7.6	2.3
VE				SA	1935	18.8	5.7
4	0050	6.1	2.5	19	0220	6.3	1.9
	0640	16.8	4.8		0825	15.4	4.7
SA	1240	7.3	2.2	SU	1405	9.0	2.7
SA	1915	18.1	5.5	DI	2040	18.5	5.6
5	0150	7.8	2.3	20	0325	6.0	1.8
	0750	16.3	4.7		0950	15.2	4.6
SU	1335	8.2	2.5	MO	1515	8.8	2.7
DI	2005	18.5	5.6	LU	2140	18.5	5.6
6	0255	8.6	2.6	21	0430	5.6	1.7
	0905	15.3	4.7		1100	15.7	4.8
MO	1440	8.6	2.7	TU	1625	10.0	3.0
LU	2105	19.3	5.9	MA	2230	18.7	5.7
7	0400	9.2	2.8	22	0525	4.9	1.5
	1025	15.9	4.8		1155	16.4	5.0
TU	1550	9.0	2.7	WE	1725	9.7	3.0
MA	2200	20.1	6.1	ME	2325	19.1	5.8
8	0500	9.8	3.0	23	0610	4.3	1.3
	1130	16.8	5.1		1240	17.0	5.2
WE	1655	8.7	2.7	TH	1805	9.2	2.8
ME	2300	21.1	6.4	JE			
9	0555	9.4	2.9	24	0000	19.5	5.9
	1225	17.8	5.4		0650	3.7	1.1
TH	1745	8.1	2.5	FR	1315	17.6	5.4
JE	2355	22.1	6.7	VE	1850	8.7	2.7
10	0645	1.1	.3	25	0050	19.9	6.1
	1315	18.8	5.7		0730	3.3	1.0
FR	1845	7.3	2.2	SA	1400	18.0	5.5
				SA	1925	8.1	2.5
11	0045	22.8	6.9	26	0125	20.1	6.1
	0735	.3	.1		0800	3.0	.9
SA	1400	18.6	5.6	SU	1430	18.4	5.6
SA	1935	6.5	2.0	DI	1955	7.7	2.3
12	0140	23.1	7.0	27	0200	20.1	6.1
	0820	.0	.0		0830	3.0	.9
SU	1445	20.2	6.2	MO	1450	18.7	5.7
DI	2025	6.0	1.8	LU	2030	7.3	2.2
13	0230	22.8	6.9	28	0235	19.9	6.1
	0905	2	1		0900	3.2	1.0
MO	1530	20.5	6.2	TU	1535	18.8	5.7
LU	2115	5.6	1.7	MA	2115	7.1	2.2
14	0320	22.0	6.7	29	0310	19.4	5.9
	0950	1.0	.3		0940	3.6	1.1
TU	1615	20.5	6.2	WE	1545	19.0	5.8
MA	2210	5.6	1.7	ME	2145	6.9	2.1
15	0410	20.8	6.3	30	0345	18.7	5.7
	1035	2.4	.7		1000	4.4	1.3
WE	1700	20.3	6.2	TH	1615	19.0	5.8
ME	2305	5.7	1.7	JE	2225	6.9	2.1
				31	0430	17.9	5.5
					1030	5.3	1.6
				FR	1640	18.9	5.8
				VE	2305	6.8	2.1

AUGUST AOUT

Day	Time	Ht ft	Ht m	Day	Time	Ht ft	Ht m
1	0515	16.9	5.2	16	0030	5.9	1.8
	1105	6.8	2.0		0635	18.9	4.8
SA	1730	18.8	5.7	SU	1210	8.9	2.7
SA				DI	1845	18.3	5.6
2	0000	6.8	2.1	17	0135	6.8	2.0
	0600	18.8	4.8		0755	14.8	4.5
SU	1150	7.8	2.4	MO	1315	10.4	3.2
DI	1815	18.7	5.7	LU	1950	17.8	5.3
3	0105	6.8	2.1	18	0255	6.8	2.1
	0710	15.1	4.6		0930	14.7	4.5
MO	1245	8.8	2.7	TU	1445	11.1	3.4
LU	1915	18.6	5.7	MA	2110	17.4	5.3
4	0220	6.4	2.0	19	0405	6.5	2.0
	0840	14.8	4.5		1040	15.4	4.7
TU	1400	9.9	3.0	WE	1615	10.8	3.3
MA	2025	18.9	5.8	ME	2215	17.8	5.4
5	0335	5.4	1.6	20	0505	5.6	1.8
	1010	15.4	4.7		1140	16.3	5.0
WE	1525	8.9	2.7	TH	1710	10.0	3.0
ME	2140	19.6	6.0	JE	2310	18.5	5.6
6	0445	4.1	1.2	21	0555	4.9	1.5
	1130	16.8	5.1		1220	17.1	5.2
TH	1640	8.1	2.5	FR	1755	9.0	2.7
JE	2245	20.7	6.3	VE	2355	19.2	5.9
7	0545	2.6	.8	22	0640	4.2	1.3
	1215	18.0	5.5		1250	18.0	5.5
FR	1745	7.9	2.4	SA	1840	8.1	2.5
VE	2345	21.9	6.7	SA			
8	0635	1.3	.4	23	0030	19.8	6.0
	1300	19.4	5.9		0710	3.6	1.1
SA	1835	6.5	2.0	SU	1330	18.7	5.7
SA				DI	1955	7.2	2.2
9	0040	22.7	6.9	24	0115	20.2	6.2
	0730	.4	.1		0745	3.2	1.0
SU	1345	20.5	6.2	MO	1445	19.3	5.9
DI	1935	5.3	1.6	LU	2045	6.4	2.0
10	0130	23.1	7.0	25	0140	20.4	6.2
	0800	.2	.1		0800	3.1	.9
MO	1420	21.3	6.5	TU	1410	19.8	6.0
LU	2030	4.4	1.3	MA	2035	5.8	1.8
11	0215	23.0	7.0	26	0210	20.2	6.2
	0845	.6	.2		0830	3.4	1.0
MO	1500	21.7	6.6	WE	1440	20.2	6.2
ME	2100	3.9	1.2	ME	2040	5.4	1.6
12	0305	22.8	6.7	27	0240	19.8	6.0
	0930	1.7	.5		0900	4.0	1.2
TU	1540	21.7	6.6	TH	1510	20.3	6.2
JE	2150	3.9	1.2	JE	2115	5.2	1.6
13	0350	22.7	6.9	28	0330	19.2	5.9
	1000	3.2	1.0		0930	4.9	1.5
WE	1630	21.2	6.5	FR	1545	20.3	6.2
VE	2240	4.3	1.3	VE	2155	5.2	1.6
14	0440	19.1	5.8	29	0430	18.3	5.6
	1040	5.1	1.6		0955	6.0	1.8
TH	1700	20.4	6.2	SA	1605	20.0	6.1
JE	2140	5.1	1.6	SA	2205	5.5	1.7
15	0530	17.4	5.3	30	0445	17.2	5.2
	1130	7.0	2.1		1040	7.4	2.3
FR	1750	19.4	5.9	SU	1640	19.6	6.0
				DI	2305	5.9	1.8
				31	0515	16.1	4.9
				MO	1740	19.0	5.8
				LU			

SEPTEMBER-SEPTEMBRE

Day	Time	Ht ft	Ht m	Day	Time	Ht ft	Ht m
1	0030	6.3	1.9	16	0215	7.6	2.3
	0650	18.1	4.8		0915	14.8	4.5
TU	1210	10.0	3.0	WE	1430	11.5	3.6
MA	1840	18.3	5.6	ME	2040	16.8	5.0
2	0155	6.4	2.0	17	0345	7.6	2.3
	0830	14.8	4.5		1025	14.8	4.8
WE	1345	11.7	3.3	TH	1600	11.3	3.4
ME	2005	18.4	5.6	JE	2155	17.1	5.2
3	0320	6.7	2.0	18	0435	6.8	2.0
	1005	14.7	4.8		1110	14.8	5.1
TH	1525	10.3	3.1	FR	1655	9.8	3.0
JE	2130	18.2	5.9	VE	2250	17.9	5.5
4	0430	6.4	2.0	19	0520	6.7	2.0
	1110	15.2	5.2		1145	17.6	5.4
FR	1640	8.8	2.7	SA	1730	8.5	2.6
VE	2240	20.4	6.2	SA	2330	16.8	5.7
5	0530	3.0	.9	20	0555	4.0	1.5
	1155	18.0	5.9		1215	18.0	5.7
SA	1735	7.0	2.1	SU	1815	7.3	2.2
SA	2340	21.6	6.6	DI			
6	0615	1.9	.6	21	0005	18.0	6.0
	1240	20.4	6.2		0630	4.4	1.3
SU	1825	5.3	1.6	MO	1240	18.6	6.0
DI				LU	1840	6.1	1.9
7	0030	22.4	6.8	22	0045	20.1	6.1
	0700	1.3	.4		0655	4.1	1.2
MO	1315	21.6	6.6	TU	1315	20.4	6.2
LU	1910	3.8	1.2	MA	1910	6.1	1.8
8	0115	22.7	6.9	23	0115	20.4	6.2
	0735	1.4	.4		0725	4.1	1.2
TU	1350	22.4	6.8	WE	1330	21.0	6.4
MA	1955	2.9	.9	ME	1945	4.3	1.3
9	0200	22.4	6.8	24	0150	20.4	6.2
	0815	2.0	.6		0755	4.0	1.2
WE	1425	22.7	6.9	TH	1400	21.4	6.5
ME	2040	2.6	.8	JE	2015	3.8	1.2
10	0245	21.6	6.6	25	0225	20.0	6.1
	0845	3.3	1.0		0820	5.2	1.6
TH	1500	22.4	6.8	FR	1425	21.0	6.4
JE	2120	2.8	.9	VE	2045	3.6	1.1
11	0330	20.4	6.2	26	0300	19.5	5.9
	0925	4.8	1.5		0855	6.1	1.9
FR	1540	21.7	6.6	SA	1455	21.4	6.5
VE	2215	3.5	1.1	SA	2130	5.0	1.5
12	0415	18.9	5.8	27	0345	18.6	5.7
	1000	6.6	2.0		0925	7.3	2.2
SA	1615	20.6	6.2	SU	1530	20.0	6.1
SA	2255	4.7	1.4	DI	2210	4.4	1.3
13	0500	17.3	5.3	28	0430	17.6	5.3
	1040	8.4	2.6		1005	8.5	2.6
SU	1655	19.2	5.9	MO	1610	20.1	6.1
DI	2350	6.0	1.8	LU	2305	6.3	1.9
14	0600	15.9	4.8	29	0525	16.4	5.0
	1125	10.1	3.1		1055	9.7	3.0
MO	1750	17.8	5.4	TU	1705	19.1	5.8
LU				MA			
15	0055	7.1	2.2	30	0010	6.8	1.8
	0720	14.9	4.5		0645	15.8	4.8
TU	1240	11.4	3.5	WE	1205	18.8	5.3
MA	1905	18.7	5.1	ME	1825	18.3	5.6

APPENDIX 6. Indices of escapement by set and daily average for all species in the Skeena River gillnet test fishery, 1987.

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 9	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	5.45	0.91	0.00	0.00	0.00	0.91
	3	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	2.13	0.30	0.00	0.00	0.00	0.30
JUNE 10	1	0.92	0.00	4.62	0.00	0.00	0.00	0.00	3.69
	2	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.31	0.00	2.74	0.00	0.00	0.00	0.00	1.23
JUNE 11	1	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00
	2	1.47	0.00	2.94	0.00	0.00	0.00	0.00	0.00
	3	1.79	0.00	0.90	0.90	0.00	0.00	0.00	0.00
	AVERAGE	1.09	0.00	1.57	0.30	0.00	0.00	0.00	0.00
JUNE 12	1	0.00	0.00	4.14	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00
JUNE 13	1	0.85	0.00	11.91	0.85	0.00	0.00	0.00	0.85
	2	0.00	0.00	6.18	0.00	0.00	0.00	0.00	1.76
	AVERAGE	0.43	0.00	9.05	0.43	0.00	0.00	0.00	1.31
JUNE 14	1	1.88	0.00	0.94	0.94	0.00	0.00	0.00	1.88
	2	1.89	0.00	2.83	0.00	0.00	0.00	0.00	0.94
	AVERAGE	1.88	0.00	1.89	0.47	0.00	0.00	0.00	1.41
JUNE 15	1	0.00	0.00	9.43	1.71	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	9.43	1.71	0.00	0.00	0.00	0.00
JUNE 16	1	2.69	0.00	1.79	0.00	0.00	0.00	0.00	0.90
	2	0.88	0.00	9.64	0.00	0.00	0.00	0.00	0.00
	3	1.83	0.00	8.24	0.92	0.00	0.00	0.00	0.00
	AVERAGE	1.80	0.00	6.56	0.31	0.00	0.00	0.00	0.30
JUNE 17	1	0.00	0.00	1.85	0.92	0.00	0.00	0.00	0.00
	2	2.81	0.00	2.81	0.00	0.00	0.00	0.00	0.00
	3	9.50	0.00	10.36	0.00	0.00	0.00	0.00	0.86
	AVERAGE	4.10	0.00	5.01	0.31	0.00	0.00	0.00	0.29

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 18	1	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00
	3	1.86	0.00	2.79	0.00	0.00	0.00	0.00	1.86
	AVERAGE	3.08	0.00	2.45	0.00	0.00	0.00	0.00	0.62
JUNE 19	1	3.72	0.00	4.65	0.00	0.00	0.00	0.00	2.79
	2	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.94
	3	2.50	0.00	15.00	1.67	0.00	0.00	0.00	3.33
	AVERAGE	3.32	0.00	6.55	0.56	0.00	0.00	0.00	2.35
JUNE 20	1	2.63	0.00	5.26	0.88	0.00	0.00	0.00	3.50
	2	1.80	0.00	4.51	0.00	0.00	0.00	0.00	0.90
	3	2.65	0.00	7.94	0.00	0.00	0.00	0.00	3.53
	AVERAGE	2.36	0.00	5.90	0.29	0.00	0.00	0.00	2.65
JUNE 21	1	2.77	0.00	3.69	1.85	0.00	0.00	0.00	0.92
	2	3.78	0.00	2.83	0.94	0.00	0.00	0.00	0.00
	AVERAGE	3.27	0.00	3.26	1.40	0.00	0.00	0.00	0.46
JUNE 22	1	2.77	0.00	1.85	0.00	0.00	0.00	0.00	1.85
	2	1.74	0.00	7.83	0.00	0.00	0.00	0.00	0.87
	3	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.92
	AVERAGE	2.42	0.00	4.14	0.00	0.00	0.00	0.00	1.21
JUNE 23	1	5.87	0.00	15.10	0.00	0.00	0.00	0.00	2.52
	2	4.32	0.00	5.18	0.86	0.00	0.00	0.00	1.73
	3	0.87	0.00	2.61	0.87	0.00	0.00	0.00	0.00
	AVERAGE	3.69	0.00	7.63	0.58	0.00	0.00	0.00	1.41
JUNE 24	1	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	11.22	2.59	0.00	0.00	0.00	0.00
	3	2.42	0.00	4.83	0.00	0.00	0.00	0.00	0.00
	AVERAGE	1.09	0.00	5.64	0.86	0.00	0.00	0.00	0.00
JUNE 25	1	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00
	2	4.32	0.00	10.36	0.86	0.00	0.00	0.00	0.00
	3	8.82	0.00	3.53	1.76	0.00	0.00	0.00	0.00
	AVERAGE	6.35	0.00	6.60	0.88	0.00	0.00	0.00	0.00

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 26	1	8.63	0.00	12.09	0.86	0.00	0.00	0.00	0.86
	2	8.76	0.00	7.01	0.88	0.00	0.00	0.00	0.00
	AVERAGE	8.70	0.00	9.55	0.87	0.00	0.00	0.00	0.43
JUNE 27	1	8.51	0.00	9.36	0.85	0.00	0.00	0.00	3.40
	2	12.92	0.00	4.62	2.77	0.00	0.00	0.00	0.92
	AVERAGE	10.72	0.00	6.99	1.81	0.00	0.00	0.00	2.16
JUNE 28	1	2.71	0.00	5.41	0.00	0.00	0.00	0.00	0.00
	2	23.65	0.00	7.88	0.88	0.00	0.00	0.00	5.26
	AVERAGE	13.18	0.00	6.65	0.44	0.00	0.00	0.00	2.63
JUNE 29	1	9.02	0.00	3.61	0.00	0.00	0.00	0.00	0.90
	2	20.00	0.00	1.74	0.00	0.00	0.00	0.00	3.48
	AVERAGE	14.51	0.00	2.67	0.00	0.00	0.00	0.00	2.19
JUNE 30	1	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00
	2	13.43	0.84	4.20	0.84	0.00	0.00	0.00	0.00
	3	0.92	0.00	2.75	0.00	0.00	0.00	0.00	0.00
	AVERAGE	5.70	0.28	3.23	0.28	0.00	0.00	0.00	0.00
JULY 1	1	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00
	2	0.92	0.00	1.83	0.00	0.00	0.00	0.00	0.00
	AVERAGE	1.85	0.00	2.31	0.00	0.00	0.00	0.00	0.00
JULY 2	1	5.03	0.00	5.03	0.00	0.00	0.00	0.00	0.00
	2	2.47	0.00	6.58	0.82	0.00	0.00	0.00	0.00
	3	0.00	0.00	8.12	0.00	0.00	0.00	0.00	0.00
	AVERAGE	2.50	0.00	6.58	0.27	0.00	0.00	0.00	0.00
JULY 3	1	1.60	0.00	4.80	1.60	0.00	0.00	0.00	1.60
	2	0.00	0.00	7.33	0.00	0.00	0.00	0.00	0.00
	3	8.82	0.00	7.94	0.00	0.00	0.00	0.00	1.76
	AVERAGE	3.47	0.00	6.69	0.53	0.00	0.00	0.00	1.12
JULY 4	1	5.58	0.00	3.72	0.00	0.00	0.00	0.00	0.00
	2	6.32	0.00	3.61	0.00	0.00	0.00	0.00	0.00
	3	8.37	0.00	7.44	0.00	0.00	0.00	0.00	0.00
	AVERAGE	6.76	0.00	4.92	0.00	0.00	0.00	0.00	0.00

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 5	1	12.26	0.00	7.01	0.00	0.00	0.00	0.00	1.75
	2	1.86	0.00	7.44	0.00	0.00	0.00	0.00	0.00
	3	8.24	0.00	1.83	0.92	0.00	0.00	0.00	0.00
	4	9.23	0.00	9.23	0.92	0.00	0.00	0.00	0.92
	AVERAGE	7.90	0.00	6.38	0.46	0.00	0.00	0.00	0.67
JULY 6	1	30.45	0.90	3.58	0.90	0.00	0.00	0.00	0.00
	2	5.18	0.00	6.04	0.86	0.00	0.00	0.00	0.00
	3	2.73	0.00	4.55	0.91	0.00	0.00	0.00	0.00
	4	1.82	0.00	4.55	0.00	0.00	0.00	0.91	0.00
	AVERAGE	10.04	0.22	4.68	0.67	0.00	0.00	0.23	0.00
JULY 7	1	8.18	0.00	1.82	0.00	0.00	0.00	0.00	0.00
	2	3.45	0.00	10.36	0.00	0.00	0.00	0.00	0.00
	3	21.33	0.89	5.33	0.00	0.00	0.89	0.00	0.00
	AVERAGE	10.99	0.30	5.84	0.00	0.00	0.30	0.00	0.00
JULY 8	1	14.22	0.89	4.44	2.67	0.00	0.00	0.00	0.00
	2	14.78	0.00	11.30	2.61	0.00	0.00	0.00	0.00
	3	12.26	0.88	10.51	0.00	0.00	0.00	0.00	0.00
	AVERAGE	13.76	0.59	8.75	1.76	0.00	0.00	0.00	0.00
JULY 9	1	16.52	0.00	4.35	1.74	0.00	0.00	0.00	0.87
	2	12.24	0.00	10.61	2.45	0.00	0.00	0.00	0.00
	3	11.73	0.00	1.80	1.80	0.00	0.00	0.00	0.90
	AVERAGE	13.50	0.00	5.59	2.00	0.00	0.00	0.00	0.59
JULY 10	1	10.00	0.00	4.55	2.73	0.00	0.00	0.00	0.91
	2	13.78	0.00	17.84	0.81	0.00	0.00	0.00	0.00
	3	14.01	0.00	4.38	0.00	0.00	0.00	0.00	0.00
	AVERAGE	12.60	0.00	8.92	1.18	0.00	0.00	0.00	0.30
JULY 11	1	29.37	1.68	5.87	0.84	0.00	0.84	0.00	0.00
	2	22.50	0.83	1.67	0.83	0.00	0.00	0.00	0.83
	AVERAGE	25.94	1.26	3.77	0.84	0.00	0.42	0.00	0.42
JULY 12	1	31.27	0.00	5.92	2.54	0.00	2.54	0.00	0.85
	2	9.64	0.00	5.26	0.00	0.00	0.88	0.00	0.88
	AVERAGE	20.45	0.00	5.59	1.27	0.00	1.71	0.00	0.86

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 13	1	32.96	1.69	4.23	1.69	0.00	0.00	0.00	0.85
	2	10.83	0.00	6.32	1.80	0.00	0.00	0.00	0.00
	AVERAGE	21.89	0.85	5.27	1.75	0.00	0.00	0.00	0.42
JULY 14	1	1.75	0.88	3.50	0.00	0.00	0.00	0.00	0.00
	2	25.04	0.00	8.63	2.59	0.00	2.59	0.00	0.86
	3	8.37	0.00	4.65	0.00	0.00	1.86	0.00	0.00
	AVERAGE	11.72	0.29	5.60	0.86	0.00	1.48	0.00	0.29
JULY 15	1	10.29	0.86	6.00	1.71	0.00	0.00	0.00	0.00
	2	42.08	1.56	10.91	6.23	0.78	3.90	0.00	1.56
	AVERAGE	26.18	1.21	8.45	3.97	0.39	1.95	0.00	0.78
JULY 16	1	12.17	0.87	5.22	2.61	0.00	0.87	0.00	0.00
	2	22.73	3.64	5.45	4.55	0.00	0.00	0.00	0.00
	3	37.24	1.03	5.17	2.07	1.03	8.28	0.00	1.03
	AVERAGE	24.05	1.85	5.28	3.07	0.34	3.05	0.00	0.34
JULY 17	1	35.04	0.00	6.13	2.63	0.88	4.38	0.00	0.00
	2	24.35	0.00	6.96	0.00	0.00	6.96	0.87	0.87
	3	94.66	4.47	3.73	5.96	0.75	32.80	0.00	2.24
	AVERAGE	51.35	1.49	5.60	2.86	0.54	14.71	0.29	1.04
JULY 18	1	119.24	0.00	1.53	3.06	0.76	4.59	0.00	0.00
	2	52.03	1.68	5.03	0.00	0.84	19.30	0.00	0.84
	3	122.89	0.72	0.00	0.00	0.72	39.76	0.00	2.89
	AVERAGE	98.05	0.80	2.19	1.02	0.78	21.22	0.00	1.24
JULY 19	1	56.12	0.00	0.86	1.73	0.86	9.50	0.00	0.86
	2	50.00	0.00	1.67	1.67	0.00	6.67	0.00	0.00
	3	141.50	4.86	1.39	1.39	0.00	61.73	0.00	2.08
	AVERAGE	82.54	1.62	1.31	1.59	0.29	25.97	0.00	0.98
JULY 20	1	31.20	4.00	3.20	1.60	0.00	33.60	0.00	0.00
	2	19.24	0.00	0.00	0.92	0.00	6.41	0.00	0.00
	AVERAGE	25.22	2.00	1.60	1.26	0.00	20.01	0.00	0.00
JULY 21	1	25.71	1.71	0.86	0.86	0.00	23.14	0.00	0.86
	2	27.69	1.68	2.52	1.68	1.68	23.50	0.00	0.00
	3	4.23	0.00	0.85	0.00	0.00	3.38	0.00	0.00
	AVERAGE	19.21	1.13	1.41	0.85	0.56	16.67	0.00	0.29

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 22	1	30.79	2.37	1.58	0.00	0.79	56.84	0.00	0.79
	2	9.36	1.70	4.26	1.70	0.85	11.91	0.00	0.00
	3	15.12	0.94	0.94	0.00	0.00	5.67	0.00	0.00
	AVERAGE	18.42	1.67	2.26	0.57	0.55	24.81	0.00	0.26
JULY 23	1	16.17	5.11	1.70	0.00	0.00	30.64	0.00	2.55
	2	20.41	2.45	2.45	0.82	0.82	38.37	0.00	0.82
	3	6.13	0.88	2.63	0.00	0.00	30.66	0.00	0.00
	AVERAGE	14.24	2.81	2.26	0.27	0.27	33.22	0.00	1.12
JULY 24	1	13.24	0.00	0.88	0.00	0.00	32.65	0.00	0.00
	2	68.68	6.79	3.02	3.02	0.75	43.02	0.00	0.00
	3	16.49	1.83	0.92	0.00	0.00	15.57	0.00	0.00
	AVERAGE	32.80	2.87	1.61	1.01	0.25	30.41	0.00	0.00
JULY 25	1	29.59	6.58	0.00	0.82	0.82	61.64	0.00	0.82
	2	45.19	2.34	1.56	0.78	0.00	50.65	0.00	0.78
	3	25.53	0.85	1.70	0.85	0.00	38.30	0.00	2.55
	AVERAGE	33.44	3.25	1.09	0.82	0.27	50.20	0.00	1.38
JULY 26	1	34.86	0.81	0.81	3.24	2.43	40.54	0.00	0.81
	2	36.34	0.85	0.85	0.00	1.69	39.72	0.00	1.69
	AVERAGE	35.60	0.83	0.83	1.62	2.06	40.13	0.00	1.25
JULY 27	1	38.96	4.68	0.00	0.78	1.56	62.34	0.00	2.34
	2	28.03	3.50	0.88	0.00	0.00	21.02	0.00	0.00
	AVERAGE	33.50	4.09	0.44	0.39	0.78	41.68	0.00	1.17
JULY 28	1	20.44	3.56	0.89	0.89	0.89	39.11	0.00	0.00
	2	22.77	2.63	0.88	0.00	0.88	76.20	0.00	0.00
	AVERAGE	21.61	3.09	0.88	0.44	0.88	57.66	0.00	0.00
JULY 29	1	37.16	6.97	2.32	0.00	0.00	71.23	0.77	0.00
	2	47.37	3.16	1.58	0.79	1.58	73.42	0.00	0.79
	3	34.76	1.66	0.00	0.83	0.83	46.34	0.00	0.83
	AVERAGE	39.76	3.93	1.30	0.54	0.80	63.66	0.26	0.34
JULY 30	1	53.25	4.77	0.79	1.59	1.59	31.79	0.00	0.00
	2	45.82	8.73	0.00	0.73	2.91	67.64	0.00	0.73
	AVERAGE	49.53	6.75	0.40	1.16	2.25	49.71	0.00	0.36

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 31	1	35.47	1.51	1.51	0.00	1.51	62.64	1.51	0.00
	2	34.17	1.59	0.79	0.79	0.00	68.34	0.79	0.00
	3	78.70	30.14	1.12	0.00	1.12	190.33	0.56	2.79
	AVERAGE	49.45	11.08	1.14	0.26	0.88	107.10	0.95	0.93
AUG 1	1	24.32	4.86	1.62	0.00	3.24	107.84	0.00	0.00
	2	17.84	1.62	0.81	0.00	0.00	41.35	0.81	0.81
	3	34.48	3.45	0.00	0.69	3.45	144.14	0.00	5.52
	AVERAGE	25.55	3.31	0.81	0.23	2.23	97.78	0.27	2.11
AUG 2	1	38.73	3.80	0.76	0.00	0.76	74.43	0.00	1.52
	2	26.49	17.92	0.78	0.00	0.78	66.23	0.78	0.00
	3	45.35	13.26	0.00	0.00	2.79	99.77	0.00	1.40
	AVERAGE	36.86	11.66	0.51	0.00	1.44	80.14	0.26	0.97
AUG 3	1	9.60	4.00	0.00	0.00	0.80	74.40	0.00	0.00
	2	7.22	5.41	0.90	0.00	0.00	8.12	1.80	0.00
	3	7.30	2.43	0.00	0.00	0.00	77.84	0.81	0.00
	AVERAGE	8.04	3.95	0.30	0.00	0.27	53.45	0.87	0.00
AUG 4	1	7.22	1.80	0.00	0.00	0.00	26.17	0.00	0.00
	2	0.94	0.00	0.00	0.00	0.00	0.00	0.94	0.00
	3	11.76	0.78	0.78	0.00	0.00	80.78	0.00	0.00
	AVERAGE	6.64	0.86	0.26	0.00	0.00	35.65	0.31	0.00
AUG 5	1	4.93	1.64	0.00	0.00	0.00	62.47	0.00	1.64
	2	2.88	0.00	0.00	0.00	0.00	3.84	0.96	0.00
	3	6.09	3.48	0.00	0.00	1.74	72.17	0.87	0.00
	AVERAGE	4.63	1.71	0.00	0.00	0.58	46.16	0.61	0.55
AUG 6	1	14.21	1.58	0.00	0.00	2.37	78.95	0.79	1.58
	2	8.76	0.00	0.00	0.00	0.00	44.67	0.00	0.00
	AVERAGE	11.48	0.79	0.00	0.00	1.18	61.81	0.39	0.79
AUG 7	1	16.82	2.29	0.00	0.00	0.00	103.18	0.00	1.53
	2	19.50	1.50	0.00	0.00	2.25	81.00	1.50	6.00
	3	9.64	1.75	1.75	0.00	0.88	19.27	0.00	2.63
	AVERAGE	15.32	1.85	0.58	0.00	1.04	67.82	0.50	3.39

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 8	1	29.33	4.00	0.67	0.00	0.67	166.00	2.67	6.67
	2	14.68	1.73	0.00	0.00	0.00	24.17	0.00	3.45
	3	11.51	1.64	0.82	0.00	0.82	47.67	0.00	2.47
	AVERAGE	18.51	2.46	0.50	0.00	0.50	79.28	0.89	4.20
AUG 9	1	14.33	4.48	0.00	0.00	0.00	13.43	0.90	0.90
	2	2.71	5.41	0.00	0.00	0.00	8.12	0.00	0.00
	AVERAGE	8.52	4.95	0.00	0.00	0.00	10.78	0.45	0.45
AUG 10	1	7.27	1.82	0.00	0.00	1.82	5.45	0.00	1.82
	2	0.00	0.93	0.00	0.00	0.00	24.19	0.00	0.93
	AVERAGE	3.64	1.37	0.00	0.00	0.91	14.82	0.00	1.37
AUG 11	1	8.96	2.69	0.90	0.00	0.00	25.97	0.90	0.90
	2	0.00	0.92	0.92	0.00	0.00	9.16	0.00	1.83
	AVERAGE	4.48	1.80	0.91	0.00	0.00	17.57	0.45	1.36
AUG 12	1	0.00	0.94	0.00	0.00	0.00	1.88	0.00	0.00
	2	7.94	0.88	0.00	0.00	1.76	16.76	0.00	2.65
	3	0.00	0.92	0.00	0.00	0.00	3.66	0.00	0.92
	AVERAGE	2.65	0.91	0.00	0.00	0.59	7.43	0.00	1.19
AUG 13	1	1.80	0.00	0.00	0.00	0.00	11.73	0.00	0.90
	2	1.74	1.74	0.00	0.00	0.87	5.22	0.87	0.87
	AVERAGE	1.77	0.87	0.00	0.00	0.43	8.47	0.43	0.89
AUG 14	1	0.89	0.00	0.00	0.00	0.89	83.56	0.00	0.00
	2	5.58	0.00	0.00	0.00	0.00	17.67	0.00	0.93
	3	25.43	5.56	0.00	0.00	1.59	54.83	1.59	1.59
	AVERAGE	10.63	1.85	0.00	0.00	0.83	52.02	0.53	0.84
AUG 15	1	11.51	0.00	0.00	0.00	0.00	120.00	0.00	1.64
	2	10.83	1.67	0.00	0.00	0.83	59.17	0.83	0.00
	3	33.63	6.11	0.00	0.00	2.29	84.84	0.00	8.41
	AVERAGE	18.66	2.59	0.00	0.00	1.04	88.00	0.28	3.35
AUG 16	1	10.36	0.00	0.00	0.00	1.73	51.80	0.00	1.73
	2	9.36	2.55	0.00	0.00	0.00	23.83	2.55	2.55
	3	22.70	1.62	0.00	0.00	2.43	58.38	1.62	9.73
	AVERAGE	14.14	1.39	0.00	0.00	1.39	44.67	1.39	4.67

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 17	1	5.50	0.92	0.00	0.00	0.00	9.16	0.92	2.75
	2	0.95	0.95	0.00	0.00	0.00	1.90	0.00	0.00
	3	1.85	0.92	0.00	0.00	1.85	12.92	1.85	0.00
	AVERAGE	2.76	0.93	0.00	0.00	0.62	8.00	0.92	0.92
AUG 18	1	4.41	3.53	0.00	0.00	3.53	28.24	0.00	1.76
	2	0.00	0.00	0.00	0.00	0.00	0.00	1.89	1.89
	3	4.55	0.00	0.00	0.00	0.91	28.18	2.73	0.91
	AVERAGE	2.99	1.18	0.00	0.00	1.48	18.81	1.54	1.52
AUG 19	1	3.61	0.90	0.00	0.00	1.80	23.46	1.80	0.00
	2	0.94	0.00	0.00	0.00	0.00	3.78	0.00	0.00
	AVERAGE	2.28	0.45	0.00	0.00	0.90	13.62	0.90	0.00
AUG 20	1	2.75	0.00	0.00	0.00	0.92	21.07	2.75	0.92
	2	2.73	0.00	0.00	0.00	0.91	20.91	0.91	0.00
	3	0.94	0.00	0.00	0.00	0.00	1.89	2.83	0.00
	AVERAGE	2.14	0.00	0.00	0.00	0.61	14.62	2.16	0.31
AUG 21	1	6.13	0.00	0.00	0.00	0.00	28.91	1.75	3.50
	2	3.56	0.00	0.00	0.00	1.78	15.11	4.44	3.56
	3	2.77	0.00	0.00	0.00	0.00	5.54	2.77	1.85
	AVERAGE	4.15	0.00	0.00	0.00	0.59	16.52	2.99	2.97
AUG 22	1	7.16	0.00	0.00	0.00	0.90	21.49	0.00	0.90
	2	14.22	0.00	0.00	0.00	0.00	26.67	2.67	4.44
	3	0.94	0.00	0.00	0.00	0.00	7.50	2.81	0.00
	AVERAGE	7.44	0.00	0.00	0.00	0.30	18.55	1.83	1.78
AUG 23	1	5.29	0.88	0.00	0.00	0.88	21.18	3.53	3.53
	2	10.99	2.75	0.00	0.00	0.00	10.08	0.92	0.92
	AVERAGE	8.14	1.82	0.00	0.00	0.44	15.63	2.22	2.22
AUG 24	1	0.00	0.00	0.00	0.00	0.86	21.58	2.59	4.32
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.94
	AVERAGE	0.00	0.00	0.00	0.00	0.43	10.79	1.77	2.63
AUG 25	1	2.75	0.00	0.00	0.00	1.83	7.33	0.00	0.92
	2	0.00	0.00	0.00	0.00	0.00	1.90	0.00	0.00
	AVERAGE	1.37	0.00	0.00	0.00	0.92	4.62	0.00	0.46

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 26	1	6.41	0.00	0.00	0.00	3.66	20.15	0.92	1.83
	2	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.00
	AVERAGE	3.21	0.00	0.00	0.00	1.83	10.55	0.93	0.92
AUG 27	1	1.79	0.00	0.00	0.00	0.00	11.64	2.69	1.79
	2	0.00	0.00	0.00	0.00	0.00	5.67	0.00	0.00
	AVERAGE	0.90	0.00	0.00	0.00	0.00	8.66	1.34	0.90
AUG 28	1	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
	2	2.73	0.00	0.00	0.00	0.00	5.45	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	2.83	1.89	0.00
	AVERAGE	0.91	0.00	0.00	0.00	0.00	3.07	0.63	0.00
AUG 29	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
	2	2.69	0.00	0.00	0.00	0.00	3.58	6.27	1.79
	AVERAGE	1.34	0.00	0.00	0.00	0.00	1.79	3.13	1.36
AUG 30	1	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00
	2	5.45	0.00	0.00	0.00	0.00	3.64	2.73	0.91
	AVERAGE	2.73	0.00	0.00	0.00	0.00	1.82	1.83	0.45
AUG 31	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.92	2.75	0.92
	AVERAGE	0.00	0.00	0.00	0.00	0.00	0.31	0.92	0.31
SEPT 1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	2.69	0.90	0.00
	AVERAGE	0.00	0.00	0.00	0.00	0.00	0.90	0.60	0.00
SEPT 2	1	0.00	0.00	0.00	0.00	2.00	13.00	2.00	0.00
	2	2.50	0.00	0.00	0.00	12.50	26.67	0.00	5.00
	AVERAGE	1.25	0.00	0.00	0.00	7.25	19.83	1.00	2.50
SEPT 3	1	0.00	0.00	0.00	0.00	4.48	18.81	1.79	4.48
	AVERAGE	0.00	0.00	0.00	0.00	4.48	18.81	1.79	4.48

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
SEPT 4	1	0.00	0.00	0.00	0.00	10.21	14.47	1.70	6.81
	2	0.00	0.00	0.00	0.00	20.94	7.25	2.42	16.11
	AVERAGE	0.00	0.00	0.00	0.00	15.58	10.86	2.06	11.46
SEPT 5	1	0.00	0.00	0.00	0.00	8.98	0.82	1.63	11.43
	2	0.00	0.00	0.00	0.00	3.56	1.78	2.67	4.44
	3	0.92	0.00	0.00	0.00	3.69	3.69	0.92	3.69
	AVERAGE	0.31	0.00	0.00	0.00	5.41	2.10	1.74	6.52
SEPT 6	1	0.88	0.00	0.00	0.00	1.75	2.63	4.38	7.01
	2	0.00	0.00	0.00	0.00	7.06	0.88	1.76	9.71
	3	0.00	0.00	0.00	0.00	1.82	0.00	1.82	0.91
	AVERAGE	0.29	0.00	0.00	0.00	3.54	1.17	2.65	5.87

APPENDIX 7. Daily index of Pink salmon escapement from Skeena River test fishery, 1987.

DATE	CATCH PER HOUR LH	CATCH PER HOUR HH	AVG HI CATCH/HR	CATCH PER HOUR LL	CATCH PER HOUR HL	AVG LOW CATCH/HR	SUM DLY CATCH/HR	AVG DLY CATCH/HR	CUM DLY CATCH/HR
JULY 7	0.89	0.00	0.45	0.00		0.00	0.45	0.23	0.23
8	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
9	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
10	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
11	0.00		0.00	0.84		0.84	0.84	0.42	0.65
12	0.88		0.88	2.54		2.54	3.42	1.71	2.36
13	0.00		0.00	0.00		0.00	0.00	0.00	2.36
14	1.86	0.00	0.93	2.59		2.59	3.52	1.76	4.12
15		0.00	0.00	3.90		3.90	3.90	1.95	6.07
16	0.00	0.87	0.44	8.28		8.28	8.72	4.36	10.43
17	6.96	4.38	5.67	32.80		32.80	38.47	19.24	29.67
18	19.30	4.59	11.95		39.76	39.76	51.71	25.86	55.53
19	6.67	9.50	8.09		61.73	61.73	69.82	34.91	90.44
20	6.41		6.41		33.60	33.60	40.01	20.01	110.45
21	3.38		3.38	23.50	23.14	23.32	26.70	13.35	123.80
22	5.67		5.67	11.91	56.84	34.38	40.05	20.03	143.83
23	30.66		30.66	38.37	30.64	34.51	65.17	32.59	176.42
24	15.57		15.57	43.02	32.65	37.84	53.41	26.71	203.13
25	38.30		38.30	50.65	61.64	56.15	94.45	47.23	250.36
26	39.72		39.72	40.54		40.54	80.26	40.13	290.49
27	21.02		21.02	62.34		62.34	83.36	41.68	332.17
28	76.20		76.20	39.11		39.11	115.31	57.66	389.83
29	46.34	71.23	58.79	73.42		73.42	132.21	66.11	455.94
30	31.79		31.79	67.64		67.64	99.43	49.72	505.66
31	68.34	62.64	65.49	190.33		190.33	255.82	127.91	633.57
AUG 1	41.35	107.84	74.60	144.14		144.14	218.74	109.37	742.94
2	66.23	74.43	70.33		99.77	99.77	170.10	85.05	827.99
3	8.12	74.40	41.26		77.84	77.84	119.10	59.55	887.54
4	0.00	26.17	13.09		80.78	80.78	93.87	46.94	934.48
5	3.84		3.84	62.47	72.17	67.32	71.16	35.58	970.06
6	44.67		44.67	78.95		78.95	123.62	61.81	1031.87
7	19.27		19.27	81.00	103.18	92.09	111.36	55.68	1087.55
8	47.67		47.67	24.17	166.00	95.09	142.76	71.38	1158.93
9	8.12		8.12	13.43		13.43	21.55	10.78	1169.71
10	24.19		24.19	5.45		5.45	29.64	14.82	1184.53
11	9.16		9.16	25.97		25.97	35.13	17.57	1202.10
12	3.66	1.88	2.77	16.76		16.76	19.53	9.77	1211.87
13	11.73		11.73	5.22		5.22	16.95	8.48	1220.35
14	17.67	83.56	50.62	54.83		54.83	105.45	52.73	1273.08
15	59.17	120.00	89.59		84.84	84.84	174.43	87.22	1360.30
16	23.83	51.80	37.82		58.38	58.38	96.20	48.10	1408.40
17	1.90	9.16	5.53		12.92	12.92	18.45	9.23	1417.63
18	0.00		0.00	28.24	28.18	28.21	28.21	14.11	1431.74
19	3.78		3.78	23.46		23.46	27.24	13.62	1445.36
20	1.89		1.89	20.91	21.07	20.99	22.88	11.44	1456.80

DATE	CATCH PER HOUR LH	CATCH PER HOUR HH	AVG HI CATCH/HR	CATCH PER HOUR LL	CATCH PER HOUR HL	AVG LOW CATCH/HR	SUM DLY CATCH/HR	AVG DLY CATCH/HR	CUM DLY CATCH/HR
AUG. 21	5.54		5.54	15.11	28.91	22.01	27.55	13.78	1470.58
22	7.50		7.50	26.67	21.49	24.08	31.58	15.79	1486.37
23	10.08		10.08	21.18		21.18	31.26	15.63	1502.00
24	0.00		0.00	21.58		21.58	21.58	10.79	1512.79
25	1.90		1.90	7.33		7.33	9.23	4.62	1517.41
26		0.94	0.94	20.15		20.15	21.09	10.55	1527.96
27		5.67	5.67	11.64		11.64	17.31	8.66	1536.62
28	0.93	2.83	1.88	5.45		5.45	7.33	3.67	1540.29
29	0.00		0.00		3.58	3.58	3.58	1.79	1542.08
30	0.00		0.00		3.64	3.64	3.64	1.82	1543.90
31	0.00	0.00	0.00		0.92	0.92	0.92	0.46	1544.36
SEPT 1	0.00	0.00	0.00		2.69	2.69	2.69	1.35	1545.71
2	13.00		13.00		26.67	26.67	39.67	19.84	1565.55
3	18.81		18.81				18.81	9.41	1574.96
4				7.25	14.47	10.86	10.86	5.43	1580.39
5	3.69		3.69	1.78	0.82	1.30	4.99	2.50	1582.89
6	0.00		0.00	0.88	2.63	1.76	1.76	0.88	1583.77

APPENDIX 8. Sockeye and Pink salmon escapement estimates from Skeena River gillnet test fishery, 1987.

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	WEEKLY EXPECTED ESC.	WEEKLY DESIRED ESC.	CUM. ESC.
JUNE 8							
9	0.00	0	0	0			
10	0.31	153	153	153			
11	1.09	539	692	692			
12	0.00	0	692	692			
13	0.43	213	905	905			
14	1.88	930	1835	1835	7800	8244	8244
15	0.00	0	0	1835			
16	1.80	1006	1006	2841			
17	4.10	2291	3297	5132			
18	3.08	1721	5018	6853			
19	3.32	1855	6873	8708			
20	2.36	1319	8192	10027			
21	3.27	1827	10019	11854	24700	26106	34350
22	2.42	1481	1481	13335			
23	3.69	2259	3740	15594			
24	1.09	667	4407	16261			
25	6.35	3887	8294	20148			
26	8.70	5325	13619	25473			
27	10.72	6562	20181	32035			
28	13.18	8067	28248	40102	37700	39846	74196
29	14.51	9733	9733	49835			
30	5.70	3824	13557	53659			
JULY 1	1.85	1241	14798	54900			
2	2.50	1677	16475	56577			
3	3.47	2328	18803	58905			
4	6.76	4535	23338	63440			
5	7.90	5299	28637	68739	102700	108546	182742
6	10.04	7807	7807	76546			
7	10.99	8546	16353	85092			
8	13.76	10700	27053	95792			
9	13.50	10498	37551	106290			
10	12.60	9798	47349	116088			
11	25.94	20171	67520	136259			
12	20.45	15902	83422	152161	126750	133965	316708
13	21.89	17490	17490	169651			
14	11.72	9364	26854	179015			
15	26.18	20918	47772	199933			
16	24.05	19216	66988	219149			
17	51.35	41029	108017	260178			
18	98.05	78342	186359	338520			
19	82.54	65949	252308	404469	156325	165224	481932

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	WEEKLY EXPECTED ESC.	WEEKLY DESIRED ESC.	CUM. ESC.
JULY 20	25.22	20284	20284	424753			
21	19.21	15451	35735	440204			
22	18.42	14815	50550	455019			
23	14.24	11453	62003	466472			
24	32.80	26381	88384	492853			
25	33.44	26896	115280	519749			
26	35.60	28633	143913	548382	173225	183086	665018
27	33.50	21577	21577	569959			
28	21.61	13919	35496	583878			
29	39.76	25609	61105	609487			
30	49.53	31902	93007	641389			
31	49.45	31851	124858	673240			
AUG 1	25.55	16457	141315	689697			
2	36.86	23742	165057	713439	162825	172094	837112
3	8.04	5823	5823	719262			
4	6.64	4809	10632	724071			
5	4.63	3353	13977	727416			
6	11.48	8314	22291	735730			
7	15.32	11095	33393	746832			
8	18.51	13405	46798	760237			
9	8.52	6170	52968	766407	110175	116447	953559
10	3.64	2170	2170	768577			
11	4.48	2671	4841	771248			
12	2.65	1580	6421	772828			
13	1.77	1055	7476	773883			
14	10.63	6337	13813	780220			
15	18.66	11123	24936	791343			
16	14.14	8429	33365	799772	30550	32289	985848
17	2.76	1866	1866	801638			
18	2.99	2022	3888	803660			
19	2.28	1542	5430	805202			
20	2.14	1447	6877	806649			
21	4.15	2806	9683	809455			
22	7.44	5030	14713	814485			
23	8.14	5503	20216	819988	9100	9618	995466
24	0.00	0	0	819988			
25	1.37	648	648	820636			
26	3.21	1519	2167	822155			
27	0.90	426	2593	822581			
28	0.91	431	3024	823012			
29	1.34	634	3658	823646			
30	2.73	1292	4950	824938	4290	4534	1000000

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	WEEKLY EXPECTED ESC.	WEEKLY DESIRED ESC.	CUM. ESC.
31	0.00	0	0	824938			
SEPT 1	0.00	0	0	824938			
2	1.25	592	592	825530			
3	0.00	0	592	825530			
4	0.00	0	592	825530			
5	0.31	147	739	825677			
6	0.29	137	876	825814			

Skeena River gillnet test fishery Pink escapement estimate, 1987

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	EXPECTED ESC.	DESIRED ESC.	CUMM. ESC.
JULY 6							
7	0.23	345	345	345			
8	0	0	345	345			
9	0	0	345	345			
10	0	0	345	345			
11	0.42	630	975	975			
12	1.71	2565	3540	3540	4973	3481	3481
13	0	0	0	3540			
14	1.76	2640	2640	6180			
15	1.95	2925	5565	9105			
16	4.36	6540	12105	15645			
17	19.24	28860	40965	44505			
18	25.86	38790	79755	83295			
19	34.91	52365	132120	135660	39270	27485	30966
20	20.01	30015	30015	165675			
21	13.35	20025	50040	185700			
22	20.03	30045	80085	215745			
23	32.59	48885	128970	264630			
24	26.71	40065	169035	304695			
25	47.23	70845	239880	375540			
26	40.13	60195	300075	435735	140250	98162	129128
27	41.68	62520	62520	498255			
28	57.66	86490	149010	584745			
29	66.11	99165	248175	683910			
30	49.72	74580	322755	758490			
31	127.91	191865	514620	950355			
AUG 1	109.37	164055	678675	1114410			
2	85.05	127575	806250	1241985	359678	251740	380868
3	59.55	89325	89325	1331310			
4	46.94	70410	159735	1401720			
5	35.58	53370	213105	1455090			
6	61.81	92715	305820	1547805			
7	55.68	83520	389340	1631325			
8	71.38	107070	496410	1738395			
9	10.78	16170	512580	1754565	439238	307425	688293
10	14.82	22230	22230	1776795			
11	17.57	26355	48585	1803150			
12	9.77	14655	63240	1817805			
13	8.48	12720	75960	1830525			
14	52.73	79095	155055	1909620			
15	87.22	130830	285885	2040450			
16	48.10	72150	358035	2112600	259335	181510	869803

Skeena River gillnet test fishery Pink escapement estimate, 1987

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	EXPECTED ESC.	DESIRED ESC.	CUMM. ESC.
AUG. 17	9.23	13845	13845	2126445			
18	14.11	21165	35010	2147610			
19	13.62	20430	55440	2168040			
20	11.44	17160	72600	2185200			
21	13.78	20670	93270	2205870			
22	15.79	23685	116955	2229555			
23	15.63	23445	140400	2253000	129668	90755	960559
24	10.79	16185	16185	2269185			
25	4.62	6930	23115	2276115			
26	10.55	15825	38940	2291940			
27	8.66	12990	51930	2304930			
28	3.67	5505	57435	2310435			
29	1.79	2685	60120	2313120			
30	1.82	2730	62850	2315850	56355	39443	1000002
31	0.46	690	690	2316540			
SEPT 1	1.35	2025	2715	2318565			
2	19.84	29760	32475	2348325			
3	9.41	14115	46590	2362440			
4	5.43	8145	54735	2370585			
5	2.50	3750	58485	2374335			
6	0.88	1320	59805	2375655			

APPENDIX 9. Age, length and sex information for Sockeye salmon sampled from the Skeena River gillnet test fishery, 1987.

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 11	1	535	650	F	5_2
11	1	525	635	M	5_2
11	1	510	620	F	5_2
JUNE 13	1	545	670	M	5_2
JUNE 14	1	525	645	F	5_2
14	1	500	605	F	5_2
14	1	495	595	F	5_2
JUNE 15	2	510	630	F	5_2
15	2	500	610	F	5_2
JUNE 16	2	510	620	F	5_2
16	2	535	645	M	7_2
JUNE 17	2	455	540	M	5_3
17	2	485	570	F	5_3
17	2	510	615	F	5_2
17	2	515	605	F	5_2
17	2	520	625	F	5_2
17	2	470	560	F	5_2
17	2	510	610	F	5_2
17	2	525	610	F	5_2
17	2	505	600	M	5_2
17	2	525	660	M	5_2
17	2	540	680	M	5_2
JUNE 18	2	490	600	M	5_2
18	2	520	620	F	5_3
18	2	520	620	F	5_2
18	2	490	600	F	5_2
18	2	525	655	M	5_2
JUNE 19	2	515	630	M	5_2
19	2	520	640	M	5_2
19	2	500	590	F	5_2
JUNE 20	2	500	615	M	5_2
20	2	520	630	F	5_2
20	3	490	600	F	5_2
20	3	565	680	F	5_2
JUNE 21	3	510	610	F	5_2
21	3	550	685	M	5_2
21	3	405	500	M	4_2
21	3	505	615	M	5_2
21	3	510	615	M	5_2
21	3	465	565	F	4_2
21	3	510	630	M	5_2
21	4	510	605	F	5_2
JUNE 22	4	540	660	M	5_2
22	4	475	575	M	4_2
22	4	500	610	M	5_2
22	4	510	630	F	5_2
22	4	530	655	F	5_2
22	4	530	655	M	5_2
22	4	520	630	F	5_2
22	4	525	640	F	5_2
JUNE 23	4	480	600	F	5_2
23	4	515	630	F	5_2
23	4	500	610	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 23	4	545	675	M	5_2
JUNE 24	4	475	570	F	5_2
24	4	460	555	F	4_2
24	4	510	615	M	5_2
24	4	440	530	F	4_2
24	4	510	630	M	R^2
JUNE 25	4	480	580	F	5_2
25	4	410	500	M	4_2
25	4	520	630	M	5_2
25	4	515	620	F	5_2
25	4	505	610	F	4_2
25	4	490	600	F	5_2
25	4	480	575	F	4_2
25	5	410	490	M	R^2
25	5	540	670	M	5_2
25	5	480	570	F	4_2
25	5	480	575	M	5_2
25	5	530	640	M	5_3
25	5	530	640	M	5_2
25	5	520	640	M	5_2
JUNE 26	5	490	605	F	5_2
26	5	510	615	F	5_2
26	5	540	670	M	5_2
26	5	445	540	M	4_2
26	5	440	540	F	4_2
26	5	540	660	M	5_2
26	5	490	590	F	R^2
26	5	505	615	F	5_2
26	5	480	590	F	5_2
26	5	520	625	M	5_2
26	5	460	560	F	R^2
26	5	485	595	F	R
26	5	475	590	F	5_2
26	5	500	625	M	5_2
26	5	520	635	M	5_2
JUNE 27	5	455	560	F	4_2
27	5	520	645	M	5_2
27	5	545	690	M	5_2
27	6	505	630	M	R^2
27	6	500	625	M	5_2
27	6	505	610	F	5_2
27	6	510	620	F	5_2
27	6	535	670	M	5_2
27	6	520	630	F	R^2
27	6	495	615	F	R
27	6	520	635	M	5_2
27	6	540	680	M	5_2
27	6	410	500	M	4_2
27	6	510	620	F	5_2
27	6	515	650	F	5_2
27	6	530	655	M	5_2
27	6	520	635	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 27	6	440	530	F	4_2
27	6	495	620	F	5_2
JUNE 28	6	540	660	M	5_2
28	6	450	555	M	4_2
28	6	510	625	F	5_2
28	6	505	620	M	5_2
28	6	515	635	F	5_2
28	6	450	555	M	5_2
28	6	410	485	M	4_3
28	6	500	660	M	5_2
28	6	485	590	F	5_2
28	7	515	620	F	5_2
28	7	520	630	M	5_2
28	7	500	610	F	5_2
28	7	530	655	M	5_2
28	7	500	620	F	R_2
28	7	555	675	F	5_2
28	7	470	560	M	5_3
28	7	505	630	M	5_2
28	7	540	660	M	5_2
28	7	540	655	M	5_2
28	7	450	540	F	4_2
28	7	480	600	M	4_2
28	7	450	505	M	4_2
28	7	415	505	M	4_2
28	7	470	580	F	5_2
28	7	495	605	M	5_2
28	7	485	600	F	5_2
28	7	425	550	M	4_2
28	7	510	650	F	5_2
JUNE 29	7	530	660	M	5_2
29	8	540	660	M	5_2
29	8	530	660	M	5_2
29	8	505	620	M	6_2
29	8	490	605	F	5_3
29	8	375	460	M	4_2
29	8	455	555	M	4_2
29	8	405	500	M	4_2
29	8	420	510	M	4_2
29	8	435	520	F	4_2
29	8	545	670	M	5_2
29	8	520	630	F	5_2
29	8	535	645	M	5_2
29	8	470	585	M	5_2
29	8	495	600	F	5_2
29	8	530	670	M	5_2
29	8	530	650	F	5_2
29	8	520	620	F	5_2
29	8	520	630	F	5_2
29	8	520	630	M	5_2
29	8	510	630	M	R_2
29	8	525	640	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 29	8	545	665	M	5_2
29	8	550	675	M	5_2
29	8	550	665	M	5_2
29	8	520	620	F	5_2
29	9	500	590	F	5_2
JUNE 30	9	505	630	M	5_2
30	9	530	650	M	5_2
30	9	460	575	F	5_2
30	9	510	630	F	5_2
30	9	430	530	M	R^2
30	9	445	540	M	4_2
30	9	450	540	F	5_2
30	9	430	520	M	4_2
30	9	325	385	M	3_2
30	9	430	510	M	R^2
30	9	400	485	M	4_2
30	9	520	630	M	5_2
30	9	495	600	F	5_2
30	9	435	520	F	4_2
30	9	470	560	F	R^2
30	9	410	500	M	5_3
30	9	460	560	M	4_2
30	9	420	510	M	4_2
30	9	460	550	F	4_2
JULY 1	9	460	560	M	W^2
1	9	530	645	M	5_2
1	9	405	485	M	4_2
1	9	485	595	M	4_2
JULY 2	9	540	660	M	5_2
2	10	505	615	M	4_2
2	10	530	640	M	5_2
2	10	530	650	M	5_2
JULY 3	10	520	635	M	5_2
3	10	430	520	M	R^2
3	10	447	554	M	4_2
3	10	427	514	M	4_2
3	10	506	615	F	5_2
3	10	429	519	M	4_2
3	10	536	646	M	5_2
3	10	540	648	M	4_2
3	10	407	495	M	4_2
JULY 4	10	410	480	F	4_2
4	10	420	510	M	4_2
4	10	495	585	M	5_2
4	10	420	500	F	5_3
4	10	450	500	F	4_2
4	10	440	530	F	4_2
4	10	530	640	F	5_2
4	10	510	620	F	5_2
4	10	510	635	M	R^2
4	10	460	560	F	5_2
4	10	495	600	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 4	10	520	645	M	5_2
4	10	530	655	M	5_2
4	11	515	630	M	5_2
4	11	515	620	M	5_2
4	11	515	620	M	5_2
4	11	385	470	M	4_2
JULY 5	11	430	520	M	4_2
5	11	430	530	F	4_2
5	11	510	610	M	5_2
5	11	540	650	F	5_2
5	11	420	505	M	4_2
5	11	440	530	F	4_2
5	11	530	630	F	5_2
5	11	545	650	M	5_2
5	11	500	610	F	5_2
5	11	320	385	M	3_2
5	11	480	585	F	5_2
5	11	530	650	M	5_2
5	11	500	610	M	R^2
5	11	460	570	M	4_2
5	11	485	595	M	5_2
5	11	510	610	F	5_2
5	11	540	650	F	5_2
5	11	520	640	F	5_2
5	11	540	650	F	5_2
5	11	440	540	M	5_2
5	11	505	610	F	5_2
5	12	510	615	F	5_2
5	12	540	670	M	5_2
5	12	530	650	M	5_2
5	12	500	580	M	5_2
JULY 6	13	540	650	M	5_2
6	13	505	615	F	5_2
6	13	520	635	F	5_2
6	13	420	520	M	R^2
6	13	505	625	M	4_2
6	13	440	535	M	4_2
6	13	405	500	M	4_2
6	13	465	565	F	4_2
6	13	380	465	M	4_2
6	13	465	560	F	5_2
6	13	430	510	M	4_3
6	13	500	610	F	5_2
6	13	320	385	M	3_2
6	13	500	615	F	5_2
6	13	420	505	M	4_2
6	13	385	470	M	R^2
6	13	495	610	F	5_2
6	13	400	480	M	4_2
6	13	500	630	M	5_2
6	13	415	500	M	4_2
6	13	450	540	M	5_3

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 6	13	470	570	F	4_2
6	13	525	635	F	5_2
6	13	405	500	M	4_2
6	13	440	510	M	4_2
6	14	530	615	M	5_2
6	14	515	615	F	5_2
6	14	425	525	M	4_2
6	14	410	495	M	4_2
6	14	495	595	F	R^2
JULY 7	14	440	540	M	4_2
7	14	440	525	M	4_2
7	14	400	480	M	4_2
7	14	540	655	M	5_2
7	14	505	610	F	5_2
7	14	455	550	F	5_2
7	14	425	520	M	4_3
7	14	480	570	F	4_2
7	14	305	360	M	3_2
7	14	510	610	F	5_2
7	14	400	490	M	4_2
7	14	435	530	M	4_2
7	14	510	615	F	R^2
7	14	440	520	M	4_2
7	14	450	555	M	4_2
7	14	440	530	M	4_2
7	14	415	510	F	4_2
7	14	415	510	M	4_2
7	14	420	520	M	R^2
7	14	510	610	M	5_2
7	15	455	550	F	4_2
7	15	445	540	M	4_2
7	15	460	555	F	5_2
7	15	405	500	M	4_3
7	15	460	550	F	4_2
7	15	500	605	M	6_2
7	15	535	645	F	5_3
7	15	515	640	F	5_2
7	15	565	675	M	5_2
7	15	475	570	F	4_2
JULY 8	15	325	395	M	R^2
8	15	430	510	M	4_2
8	15	430	525	M	4_2
8	15	425	520	M	4_2
8	15	400	480	M	4_2
8	15	380	445	M	4_2
8	15	465	550	F	4_2
8	15	400	475	M	4_2
8	15	410	500	M	4_2
8	15	420	520	M	4_2
8	15	520	630	F	5_2
8	15	420	510	M	4_2
8	15	475	585	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 8	15	460	540	F	4_2
8	15	500	595	F	R^2
8	16	525	640	F	5_2
8	16	395	470	M	4_2
8	16	535	640	F	5_2
8	16	560	685	M	5_2
8	16	430	510	M	4_2
8	16	410	495	M	4_2
8	16	530	610	F	5_2
8	16	525	630	M	5_2
8	16	525	610	F	5_2
8	16	460	540	F	5_2
8	16	400	480	M	4_3
8	16	520	615	F	5_2
8	16	520	640	M	5_2
8	16	420	500	M	4_2
8	16	430	525	M	4_2
JULY 9	16	555	670	M	5_2
9	16	460	550	F	R^2
9	16	555	675	M	R
9	16	405	495	M	4_2
9	16	470	570	M	4_2
9	16	560	670	M	5_2
9	16	470	570	F	R^2
9	16	465	575	M	4_2
9	16	430	510	M	4_2
9	16	405	490	M	4_2
9	17	425	505	M	4_2
9	17	455	540	F	R^2
9	17	465	570	M	4_2
9	17	470	555	M	4_2
9	17	530	645	M	5_2
9	17	440	530	M	4_2
9	17	395	460	M	4_2
9	17	425	520	F	4_2
9	17	425	515	M	4_2
9	17	385	460	M	4_2
9	17	465	570	M	R^2
9	17	520	650	M	5_2
9	17	360	465	M	4_2
9	17	400	495	M	4_2
9	17	400	490	F	4_2
9	17	400	495	M	4_2
9	17	390	490	M	4_2
9	17	430	530	M	4_2
9	17	385	460	F	4_2
9	17	420	535	M	4_2
JULY 10	17	560	680	M	5_2
10	17	525	635	M	5_2
10	17	460	530	F	4_2
10	17	540	660	M	5_2
10	17	540	655	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 10	18	530	645	F	5_2
10	18	500	620	M	5_2
10	18	515	620	F	5_2
10	18	405	495	M	R^2
10	18	545	655	F	5_2
10	18	560	680	M	5_2
10	18	500	605	F	5_2
10	18	420	515	M	4_2
10	18	500	605	F	5_2
10	18	515	620	F	5_2
10	18	530	660	M	5_2
10	18	435	510	M	4_2
10	18	545	655	F	5_2
10	18	510	625	M	5_2
10	18	450	545	F	4_2
10	18	530	645	M	5_2
10	18	560	695	M	5_2
10	18	480	590	F	5_2
10	18	415	500	M	4_2
10	18	455	555	F	4_2
10	18	450	545	F	4_2
10	18	500	610	F	5_2
10	18	520	630	F	5_2
10	18	520	620	F	R^2
10	18	450	545	M	4_2
JULY 11	19	420	525	M	4_2
11	19	405	490	M	4_2
11	19	510	645	M	R^2
11	19	460	550	M	4_2
11	19	515	610	F	5_2
11	19	510	605	F	5_2
11	19	420	530	M	4_2
11	19	510	640	M	5_2
11	19	550	670	M	5_2
11	19	520	640	F	5_2
11	19	500	630	M	5_2
11	19	515	640	M	5_3
11	19	460	580	M	4_2
11	19	420	520	M	4_2
11	19	395	490	M	4_2
11	19	485	590	M	5_2
11	19	410	500	F	4_2
11	19	520	620	F	5_2
11	19	505	620	M	R^3
11	19	410	510	M	5_3
11	19	370	450	M	4_2
11	19	325	385	M	3_2
11	19	330	380	M	3_2
11	19	390	465	M	4_2
11	19	520	630	F	5_2
11	20	415	500	M	R^2
11	20	430	525	M	4_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 11	20	400	495	F	R
11	20	430	500	F	R
11	20	500	610	M	5_2
JULY 12	20	470	570	M	5_2^2
12	20	510	620	F	5_3^3
12	20	450	540	F	4_2^2
12	20	500	620	M	6_2^2
12	20	435	520	M	4_3^3
12	20	450	530	F	4_2^2
12	20	480	580	F	4_2^2
12	20	510	630	F	R^2
12	20	535	660	M	5_2
12	20	480	590	F	5_2^2
12	20	550	680	M	5_2^2
12	20	425	510	M	4_2^2
12	20	470	570	M	4_2^2
12	20	510	610	F	5_2^2
12	20	510	610	F	5_2^2
12	20	525	630	F	5_2^2
12	20	450	530	F	4_2^2
12	20	555	680	M	R^2
12	20	550	650	F	5_2
12	20	440	540	M	4_2^2
12	21	420	510	M	4_2^2
12	21	440	550	F	4_2^2
12	21	475	570	M	4_2^2
12	21	395	480	M	4_2^2
12	21	400	510	M	4_2^2
12	21	410	500	M	4_2^2
12	21	555	670	M	5_2^2
12	21	430	515	M	4_2^2
12	21	400	500	M	4_2^2
12	21	540	645	F	5_2^2
JULY 13	22	520	630	M	5_2^2
13	22	485	575	F	4_2^2
13	22	520	595	F	5_2^2
13	22	525	625	F	5_2^2
13	22	400	490	M	4_2^2
13	22	425	510	F	4_2^2
13	22	455	560	F	4_2^2
13	22	420	520	F	5_3^2
13	22	440	540	M	4_2^3
13	22	400	480	M	4_2^2
13	22	300	365	M	3_2^2
13	22	325	390	M	3_2^2
13	22	455	550	F	4_2^2
13	22	420	505	M	4_2^2
13	22	550	560	F	5_2^2
13	22	435	530	M	4_2^2
13	22	405	505	M	4_2^2
13	22	490	585	F	5_2^2
13	22	400	505	M	4_2^2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 13	22	520	640	F	5_2
13	22	485	580	M	4_2
13	22	410	500	M	4_2
13	22	395	480	M	4_2
13	22	510	620	F	5_2
13	22	420	530	M	4_2
13	23	410	500	M	4_2
13	23	400	495	M	4_2
13	23	440	525	M	4_2
13	23	405	500	M	4_2
13	23	420	520	M	4_2
JULY 14	23	500	605	M	5_2
14	23	450	545	F	4_2
14	23	540	650	F	5_2
14	23	510	620	F	5_2
14	23	525	630	F	5_2
14	23	450	550	M	4_2
14	23	400	480	M	4_2
14	23	500	600	M	5_2
14	23	405	505	M	4_2
14	23	385	470	M	4_2
14	23	430	520	M	4_2
14	23	445	545	M	4_2
14	23	420	515	M	4_2
14	23	420	530	M	4_2
14	23	445	560	M	4_2
14	23	520	655	M	5_2
14	23	505	630	F	5_2
14	23	505	610	F	R_2
14	23	415	505	M	R
14	23	400	485	M	4_2
14	24	420	490	M	4_2
14	24	520	620	M	5_2
14	24	450	540	F	R_2
14	24	385	470	M	4_2
14	24	400	485	M	4_2
14	24	420	520	F	4_2
14	24	485	580	F	5_2
14	24	390	475	M	4_2
14	24	530	655	M	5_2
14	24	520	640	F	5_2
JULY 15	24	395	475	M	4_2
15	24	545	660	F	5_2
15	24	520	635	M	5_2
15	24	300	355	M	3_2
15	24	415	495	F	4_2
15	24	370	455	M	4_2
15	24	400	500	M	4_2
15	24	400	480	M	R_2
15	24	465	555	F	4_2
15	24	370	460	M	4_2
15	24	505	650	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 15	24	300	365	F	3_2
15	24	520	640	F	5_2
15	24	485	605	F	5_2
15	24	415	510	F	4_2
15	25	380	450	M	4_2
15	25	440	540	M	R^2
15	25	410	490	M	4_2
15	25	520	630	F	5_2
15	25	570	705	M	6_2
15	25	460	570	M	4_2
15	25	380	465	M	4_2
15	25	430	520	F	4_2
15	25	505	625	M	5_2
15	25	435	535	M	4_2
15	25	545	670	M	5_2
15	25	460	560	F	5_2
15	25	485	605	M	5_3
15	25	420	505	M	4_2
15	25	310	370	M	3_2
JULY 16	25	515	630	M	5_2
16	25	480	580	F	4_2
16	25	430	520	M	4_2
16	25	460	540	F	R^2
16	25	430	520	F	4_2
16	25	400	475	M	4_2
16	25	430	520	M	4_2
16	25	445	540	M	4_2
16	25	385	485	M	4_2
16	25	505	600	F	5_2
16	26	510	625	M	5_2
16	26	370	435	M	4_2
16	26	390	490	M	4_2
16	26	420	510	M	4_2
16	26	395	485	M	4_2
16	26	435	540	M	4_2
16	26	380	460	M	4_2
16	26	380	465	M	4_2
16	26	415	505	M	4_2
16	26	360	440	M	4_2
16	26	425	500	M	4_2
16	26	455	560	F	4_2
16	26	395	470	M	5_2
16	26	320	385	M	4_2
16	26	400	485	M	4_2
16	26	420	510	M	4_2
16	26	520	635	F	5_2
16	26	410	500	F	4_2
16	26	410	505	M	4_2
16	26	390	485	M	4_2
JULY 17	26	405	515	M	R^2
17	26	490	605	M	R
17	26	400	480	M	4_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 17	26	440	530	F	4_2
17	26	465	600	M	W^2
17	27	520	625	F	5_2
17	27	415	505	M	4^2
17	27	435	525	F	4^2
17	27	545	640	M	5^2
17	27	415	510	M	4^2
17	27	400	475	M	4^2
17	27	430	525	M	4^2
17	27	535	655	M	5^2
17	27	510	630	M	5^2
17	27	560	695	M	5^2
17	27	500	600	F	5^2
17	27	440	525	F	4^2
17	27	495	620	M	W^2
17	27	440	525	F	4_2
17	27	455	550	M	4^2
17	27	520	620	F	5^2
17	27	565	675	F	5^2
17	27	525	635	F	R^2
17	27	540	645	M	R
17	27	525	650	M	R
17	27	440	530	M	4_2
17	27	505	600	F	5^2
17	27	415	505	M	4^2
17	27	475	570	F	4^2
17	27	415	510	M	4^2
JULY 18	28	500	635	M	5^2
18	28	535	645	M	5^2
18	28	555	685	M	R^2
18	28	535	655	F	5_2
18	28	535	665	M	5^2
18	28	315	390	M	3^2
18	28	290	355	M	3^2
18	28	545	670	M	5^2
18	28	510	615	F	5^2
18	28	545	670	F	5^2
18	28	530	660	M	5^2
18	28	485	580	F	5^2
18	28	550	650	F	R^2
18	28	440	535	F	4_2
18	28	465	560	F	4^2
18	28	510	625	F	5^2
18	28	535	655	M	5^2
18	28	525	630	F	5^2
18	28	395	480	M	4^2
18	28	510	625	M	R^2
18	28	530	640	M	5_2
18	28	420	500	F	4^2
18	28	440	550	F	4^2
18	28	540	650	M	5^2
18	28	540	660	F	5^2_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORX LENGTH	SEX	AGE
JULY 18	29	530	645	M	R
18	29	520	630	F	5_2
18	29	415	500	M	4_2
18	29	535	660	M	5_2
18	29	410	505	M	4_2
JULY 19	29	525	640	F	W^2
19	29	520	640	M	5_2
19	29	415	505	M	R^2
19	29	520	655	M	5_2
19	29	540	660	M	5_2
19	29	435	525	M	4_2
19	29	530	635	F	5_2
19	29	530	660	M	R^2
19	29	540	670	M	5_2
19	29	495	605	M	R^2
19	29	435	525	F	4_2
19	29	505	620	M	5_2
19	29	435	520	F	4_2
19	29	415	505	M	4_2
19	29	455	555	F	4_2
19	29	540	650	F	5_2
19	29	495	595	F	5_2
19	29	375	465	M	R^2
19	29	535	660	M	5_2
19	29	470	590	M	5_2
19	30	450	535	F	4_2
19	30	515	610	F	5_2
19	30	505	615	F	5_2
19	30	480	580	F	4_2
19	30	395	480	M	4_2
19	30	335	390	M	3_2
19	30	400	480	M	R^2
19	30	380	450	M	4_2
19	30	410	495	M	4_2
19	30	540	640	M	5_2
JULY 20	31	425	510	F	4_2
20	31	480	590	M	5_2
20	31	475	580	F	5_2
20	31	430	525	M	4_2
20	31	370	450	M	R^2
20	31	445	525	M	R
20	31	445	530	F	4_2
20	31	510	615	F	5_2
20	31	435	520	M	4_2
20	31	415	490	M	4_2
20	31	495	585	F	R^2
20	31	440	515	F	4_2
20	31	450	540	F	5_2
20	31	305	365	M	3_2
20	31	305	365	M	3_2
20	31	505	600	F	5_2
20	31	415	490	M	4_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 20	31	430	510	F	4_2
20	31	495	600	M	5^2
20	31	320	385	M	3^2
20	31	520	625	F	5^2
20	31	415	505	M	4^2
20	31	435	530	M	4^2
20	31	555	670	M	5^2
20	31	455	550	F	4^2
20	32	510	615	F	5^2
20	32	410	485	M	4^2
20	32	540	635	F	5^2
20	32	420	510	M	4^2
20	32	550	655	M	5^2
20	32	315	375	M	3^2
20	32	410	495	M	4^2
20	32	445	530	F	4^2
20	32	310	365	M	3^2
20	32	525	630	F	5^2
JULY 21	32	390	480	M	4^2
21	32	450	490	M	4^2
21	32	545	660	M	5^2
21	32	515	620	F	5^2
21	32	420	510	M	R^2
21	32	380	470	M	4_2
21	32	430	535	M	4^2
21	32	375	470	M	4^2
21	32	430	520	F	5^2
21	32	525	655	M	5^3
21	32	315	375	M	3^2
21	32	455	550	F	4^2
21	32	410	500	M	R^2
21	32	535	655	F	5_2
21	32	450	540	F	4^2
21	33	540	640	F	5^2
21	33	425	505	F	4^2
21	33	435	530	F	4^2
21	33	415	515	M	4^2
21	33	465	565	F	R^2
21	33	400	470	M	4_2
21	33	420	500	M	4^2
21	33	430	520	F	4^2
21	33	385	465	M	4^2
21	33	415	515	M	4^2
21	33	310	365	F	3^2
21	33	550	650	M	5^2
21	33	420	510	F	4^2
21	33	405	500	M	4^2
21	33	465	550	F	4^2
JULY 22	33	450	530	F	4^2
22	33	530	645	F	5^2
22	33	450	540	F	3^2
22	33	420	510	M	4^2_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 22	33	395	485	M	4_2
22	33	455	540	F	4_2^2
22	33	400	485	M	4_2^2
22	33	480	580	F	R^2
22	33	430	520	F	4_2
22	33	415	505	F	4_2^2
22	34	460	575	F	4_2^2
22	34	315	380	M	3_2^2
22	34	400	485	M	4_2^2
22	34	435	515	F	4_2^2
22	34	430	520	F	4_2^2
22	34	430	520	F	4_2^2
22	34	435	530	F	4_2^2
22	34	505	610	M	NP
22	34	410	495	M	4_2
22	34	520	630	F	5_2^2
22	34	460	540	F	4_2^2
22	34	440	525	F	5_2^2
22	34	340	405	M	3_2^2
22	34	405	480	M	4_2^2
22	34	425	490	F	4_2^2
22	34	395	480	M	4_2^2
22	34	415	500	F	4_2^2
22	34	405	505	M	4_2^2
22	34	445	535	F	5_3^2
22	34	325	380	M	3_2^2
JULY 23	34	440	535	M	4_2^2
23	34	510	630	M	5_2^2
23	34	425	515	M	4_2^2
23	34	450	550	M	4_2^2
23	34	520	640	F	5_2^2
23	35	400	490	M	4_2^2
23	35	540	660	M	5_2^2
23	35	420	530	M	4_2^2
23	35	390	475	M	4_2^2
23	35	430	515	F	4_2^2
23	35	320	380	M	NP
23	35	540	655	F	5_2
23	35	525	640	M	R^2
23	35	410	505	M	4_2
23	35	420	505	F	4_2^2
23	35	410	500	M	4_2^2
23	35	400	485	M	4_2^2
23	35	505	620	M	5_2^2
23	35	420	520	F	4_2^2
23	35	400	480	M	4_2^2
23	35	380	450	M	4_2^2
23	35	320	385	M	3_2^2
23	35	390	480	M	4_2^2
23	35	375	450	M	4_2^2
23	35	320	375	M	3_2^2
23	35	520	650	M	5_2^2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 23	35	315	370	M	W
23	35	330	390	M	3_2
23	35	320	390	M	R^2
23	35	430	525	M	4_2
JULY 24	36	490	600	F	5^2
24	36	530	650	M	R^2
24	36	320	380	M	R
24	36	390	480	M	4_2
24	36	410	500	M	4^2
24	36	450	540	F	4^2
24	36	440	530	M	4^2
24	36	300	360	M	R^2
24	36	420	520	M	4_2
24	36	500	610	F	5^2
24	36	525	630	F	5^2
24	36	330	390	M	3^2
24	36	310	380	M	3^2
24	36	510	630	F	5^2
24	36	295	350	M	3^2
24	36	320	380	M	3^2
24	36	425	510	F	4^2
24	36	290	360	M	3^2
24	36	515	620	M	5^2
24	36	530	640	M	5^2
24	36	525	640	F	5^2
24	36	550	670	M	5^2
24	36	575	630	M	5^2
24	36	520	630	F	5^2
24	36	435	530	F	4^2
24	37	550	670	F	R^2
24	37	530	650	M	5_2
24	37	475	580	F	5^2
24	37	505	615	F	5^2
24	37	305	370	M	3^2
JULY 25	37	530	660	M	5^2
25	37	500	605	F	5^2
25	37	445	540	M	R^2
25	37	505	615	M	5_2
25	37	520	650	M	5^2
25	37	320	390	M	3^2
25	37	495	595	M	4^2
25	37	530	630	M	5^2
25	37	530	650	M	6^2_3
25	37	450	550	F	4^2
25	37	410	490	M	4^2
25	37	505	605	F	5^2
25	37	450	540	F	R^2
25	37	415	515	M	4_2
25	37	440	530	F	4^2
25	37	490	595	M	R^2
25	37	420	495	M	5_3
25	37	320	395	M	3^3_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 25	37	425	520	F	4_2
25	37	310	375	M	3_2
25	38	330	390	M	3_2
25	38	560	680	M	5_2
25	38	430	515	M	4_2
25	38	410	490	M	4_2
25	38	400	485	M	R_2
25	38	535	645	M	5_2
25	38	525	620	F	5_2
25	38	510	610	F	5_2
25	38	470	575	F	5_2
25	38	440	540	M	4_2
JULY 26	38	480	580	F	4_2
26	38	440	535	F	4_2
26	38	425	525	F	4_2
26	38	530	655	M	5_2
26	38	460	560	F	4_2
26	38	380	475	M	4_2
26	38	475	575	M	4_2
26	38	520	630	F	R_2
26	38	395	485	M	4_2
26	38	530	645	F	5_2
26	38	480	580	M	4_2
26	38	420	515	M	4_2
26	38	510	620	F	5_2
26	38	550	680	M	5_2
26	38	505	620	F	5_2
26	39	530	635	F	5_2
26	39	500	600	F	5_2
26	39	445	540	F	4_2
26	39	390	480	M	4_2
26	39	505	625	F	5_2
26	39	510	620	F	5_2
26	39	440	530	F	4_2
26	39	465	565	M	4_2
26	39	495	610	F	5_2
26	39	390	485	M	4_2
26	39	540	655	M	5_2
26	39	435	525	F	4_2
26	39	540	660	F	5_2
26	39	530	645	M	5_2
26	39	500	620	F	5_2
JULY 27	40	315	385	M	3_2
27	40	330	400	M	3_2
27	40	505	615	M	5_2
27	40	530	650	M	5_2
27	40	510	620	M	5_2
27	40	420	505	M	4_2
27	40	520	630	M	5_2
27	40	550	670	M	5_2
27	40	545	640	M	5_2
27	40	515	620	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 27	40	540	660	M	W
27	40	400	480	M	4_2
27	40	515	600	F	5^2
27	40	425	510	F	4^2
27	40	305	370	M	3^2
27	40	520	640	M	R^2
27	40	450	550	F	4_2
27	40	485	590	F	5^2
27	40	340	415	M	3^2
27	40	510	650	M	5^2
27	40	570	690	M	5^2
27	40	510	650	M	5^2
27	40	480	570	F	5^2
27	40	330	395	M	3^2
27	40	530	660	M	5^2
27	41	460	550	F	4^2
27	41	420	505	M	4^2
27	41	445	540	M	4^2
27	41	410	485	M	4^2
27	41	455	550	F	4^2
JULY 28	41	410	500	M	4^2
28	41	550	660	M	5^2
28	41	430	515	F	4^2
28	41	480	600	F	5^2
28	41	530	630	F	5^2
28	41	470	580	M	4^2
28	41	445	540	M	4^2
28	41	295	340	M	R^2
28	41	540	665	M	5_2
28	41	505	620	F	5^2
28	41	510	615	F	5^2
28	41	300	355	M	3^2
28	41	440	540	F	4^2
28	41	430	520	F	4^2
28	41	555	675	M	5^2
28	41	300	360	M	3^2
28	41	510	620	F	5^2
28	41	495	600	F	R^2
28	41	535	640	F	5_2
28	41	405	500	M	4^2
28	42	550	660	M	5^2
28	42	530	640	M	5^2
28	42	530	650	M	5^2
28	42	410	490	M	4^2
28	42	460	570	M	4^2
28	42	440	535	F	4^2
28	42	505	630	M	5^2
28	42	515	620	F	5^2
28	42	480	595	F	R^2
28	42	550	680	M	5_2
JULY 29	42	405	500	M	4^2_2
29	42	310	380	M	3^2_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 29	42	515	630	F	R
29	42	410	515	F	4_2
29	42	545	665	M	5_2
29	42	495	585	F	5_2
29	42	415	510	F	4_2
29	42	450	545	M	4_2
29	42	500	610	F	5_2
29	42	465	560	M	4_2
29	42	530	650	M	5_2
29	42	440	535	F	4_2
29	42	495	610	F	5_2
29	42	530	650	M	5_2
29	42	515	625	M	R^2
29	43	535	640	M	5_2
29	43	450	550	M	4_2
29	43	480	580	F	5_2
29	43	475	580	F	5_2
29	43	520	625	F	5_2
29	43	470	555	F	4_2
29	43	470	550	F	4_2
29	43	520	630	F	5_2
29	43	415	515	M	4_2
29	43	450	545	F	4_2
29	43	500	605	F	5_2
29	43	530	640	M	5_2
29	43	500	585	M	4_2
29	43	520	630	F	5_2
29	43	400	480	M	4_2
JULY 30	43	370	455	M	4_2
30	43	495	610	M	5_2
30	43	535	655	M	5_2
30	43	540	670	M	5_2
30	43	405	500	M	4_2
30	43	530	645	F	5_2
30	43	360	445	M	3_2
30	43	470	555	F	5_2
30	43	480	560	F	4_2
30	43	485	590	F	5_2
30	44	440	530	F	4_2
30	44	520	640	M	5_2
30	44	415	495	F	4_2
30	44	440	520	F	4_2
30	44	545	655	M	5_2
30	44	525	630	F	5_2
30	44	445	530	F	4_2
30	44	530	630	F	5_2
30	44	535	670	M	5_2
30	44	485	580	F	5_2
30	44	500	600	F	5_2
30	44	515	610	F	5_2
30	44	485	585	F	R^2
30	44	495	600	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 30	44	525	625	F	5_2
30	44	505	630	M	5_2
30	44	530	640	F	5_2
30	44	505	630	M	5_2
30	44	515	670	M	6_2
30	44	390	475	M	4_3
JULY 31	44	530	645	F	W^2
31	44	550	680	M	5_2
31	44	540	645	F	5_2
31	44	405	475	F	R^2
31	44	495	600	F	5_2
31	45	530	650	M	5_2
31	45	450	540	F	4_2
31	45	430	515	F	4_2
31	45	520	635	F	5_2
31	45	410	515	M	R^2
31	45	520	625	F	5_2
31	45	580	705	M	5_2
31	45	515	640	M	5_2
31	45	490	570	F	4_2
31	45	540	650	F	5_2
31	45	550	670	F	5_2
31	45	540	680	M	5_2
31	45	520	630	F	5_2
31	45	505	620	F	5_2
31	45	535	670	M	5_2
31	45	440	530	M	4_2
31	45	435	530	M	4_2
31	45	500	650	F	5_2
31	45	395	470	M	4_2
31	45	510	640	F	5_2
31	45	520	620	F	5_2
31	45	550	645	M	5_2
31	45	540	655	F	5_2
31	45	475	560	F	4_2
31	45	500	610	F	5_2
AUG. 1	46	520	635	M	5_2
1	46	355	430	M	3_2
1	46	320	380	M	3_2
1	46	505	630	M	5_2
1	46	465	545	F	4_2
1	46	435	515	F	4_2
1	46	450	550	F	4_2
1	46	540	650	F	5_2
1	46	540	650	M	5_2
1	46	525	640	F	5_2
1	46	500	600	M	5_2
1	46	530	640	F	5_2
1	46	490	610	M	R^2
1	46	515	640	F	R
1	46	505	605	F	4_2
1	46	530	660	M	5_2

Sockeye age, sex and length data.

DATE		SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG.	1	46	560	675	M	5_2
	1	46	535	640	F	5_2
	1	46	550	640	F	5_2
	1	46	515	630	M	5_2
	1	46	530	630	M	W^2
	1	46	560	670	F	5_2
	1	46	525	635	F	5_2
	1	46	550	660	M	5_2
	1	46	420	510	M	4_2
	1	47	475	590	M	5_2
	1	47	490	615	F	R^2
	1	47	550	675	M	5_2
	1	47	540	660	M	5_2
	1	47	450	550	F	W^2
AUG.	2	47	410	530	M	4_2
	2	47	505	630	F	5_2
	2	47	310	375	M	3_2
	2	47	525	620	F	5_2
	2	47	505	610	F	5_2
	2	47	360	435	M	5_2
	2	47	455	560	F	4_2
	2	47	530	645	M	5_2
	2	47	470	575	F	4_2
	2	47	415	505	F	4_2
	2	47	510	620	F	5_2
	2	47	495	605	F	5_2
	2	47	485	565	M	4_2
	2	47	535	655	M	5_2
	2	47	500	605	F	R^2
	2	47	460	560	F	4_2
	2	47	420	505	F	4_2
	2	47	450	540	F	4_2
	2	47	520	645	M	5_2
	2	47	550	675	M	5_2
	2	48	450	540	F	4_2
	2	48	495	585	F	5_2
	2	48	530	650	M	5_2
	2	48	530	630	F	5_2
	2	48	425	505	F	4_2
	2	48	505	615	F	5_2
	2	48	545	645	F	R^2
	2	48	545	660	F	5_2
	2	48	525	625	F	5_2
	2	48	525	650	M	R^2
AUG.	3	49	305	370	M	3_2
	3	49	510	605	F	5_2
	3	49	320	390	M	3_2
	3	49	470	590	M	R^2
	3	49	450	530	F	4_2
	3	49	500	610	F	5_2
	3	49	430	515	F	4_2
	3	49	530	660	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 3	49	340	410	M	3_2
3	49	540	650	M	5^2
3	49	460	560	F	4^2
3	49	350	440	M	4^2
3	49	360	440	M	4^2
3	49	300	360	M	3^2
3	49	340	405	M	3^2
3	49	310	370	M	3^2
3	49	460	560	F	4^2
3	49	510	620	F	5^2
3	49	490	590	M	4^2
3	49	480	580	M	4^2
3	49	400	480	M	4^2
3	49	530	660	M	5^2
3	49	305	370	M	3^2
3	49	465	585	M	R^2
3	49	320	365	M	3_2
3	50	470	570	F	4^2
3	50	450	560	M	4^2
3	50	325	370	M	3^2
3	50	480	600	M	4^2
3	50	315	390	M	3^2
AUG. 4	50	550	680	M	5^2
4	50	520	620	F	5^2
4	50	450	525	F	4^2
4	50	530	630	M	5^2
4	50	520	645	F	R^2
4	50	525	645	M	5_2
4	50	435	540	F	4^2
4	50	530	630	F	5^2
4	50	320	390	M	3^2
4	50	400	480	M	4^2
4	50	320	385	M	3^2
4	50	445	530	M	4^2
4	50	500	610	M	5^2
4	50	410	505	M	4^2
4	50	555	670	M	5^2
4	50	410	500	M	R^2
4	50	430	515	F	4_2
4	50	315	390	M	3^2
4	50	475	580	M	4^2
4	50	480	595	F	5^2
4	51	390	480	M	4^2
4	51	360	440	M	4^2
4	51	340	410	M	3^2
4	51	410	510	F	4^2
4	51	445	550	F	5^2
4	51	405	500	M	4^3
4	51	440	530	F	4^2
AUG. 5	51	530	645	M	5^2
5	51	430	530	F	4^2
5	51	330	415	M	R^2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 5	51	415	510	M	4_2
5	51	380	480	M	4_2
5	51	325	385	M	3_2
5	51	305	375	M	3_2
5	51	415	500	M	4_2
5	51	440	550	F	4_2
5	51	415	510	M	4_2
5	51	395	480	F	4_2
AUG. 6	51	490	575	F	5_2
6	51	410	510	M	4_2
6	51	520	620	F	5_2
6	51	410	510	M	4_2
6	51	425	520	F	4_2
6	51	490	600	F	5_2
6	51	470	580	M	4_2
6	52	440	540	M	5_2
6	52	540	670	M	5_3
6	52	440	540	F	4_2
6	52	540	650	F	5_2
6	52	415	510	M	4_2
6	52	545	660	F	5_2
6	52	380	470	M	4_2
6	52	350	425	M	3_2
6	52	510	625	F	5_2
6	52	530	670	M	5_2
6	52	310	385	M	3_2
6	52	430	520	F	4_2
6	52	465	570	M	4_2
6	52	540	640	M	5_2
6	52	505	605	F	5_2
6	52	405	485	F	4_2
6	52	450	545	F	5_2
6	52	390	485	M	4_2
6	52	390	470	M	4_2
6	52	410	505	M	4_2
6	52	410	485	M	4_2
6	52	540	645	M	4_2
6	52	420	515	M	4_2
AUG. 7	52	530	660	F	5_2
7	52	500	625	M	5_2
7	53	510	630	M	5_2
7	53	315	390	M	3_2
7	53	540	670	M	5_2
7	53	525	630	F	5_2
7	53	420	500	F	4_2
7	53	460	550	F	4_2
7	53	505	625	F	R_2
7	53	570	680	F	5_2
7	53	530	660	M	5_2
7	53	535	650	F	5_2
7	53	325	390	M	3_2
7	53	540	660	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 7	53	430	530	F	4_2
7	53	505	600	F	R^2
7	53	490	620	M	5_2
7	53	530	640	F	5^2
7	53	445	530	F	4^2
7	53	440	525	F	4^2
7	53	535	670	M	5^2
7	53	470	580	F	5^2
7	53	530	635	F	5^2
7	53	550	670	M	5^2
7	53	570	700	M	W^2
7	53	425	520	F	W
7	53	485	575	F	4_2
7	54	555	665	F	R^2
7	54	540	650	M	5_2
7	54	430	525	F	4^2
AUG. 8	54	535	660	F	5^2
8	54	540	655	F	5^2
8	54	555	685	M	R^2
8	54	555	690	M	5_2
8	54	570	720	M	5^2
8	54	315	380	M	3^2
8	54	530	645	F	5^2
8	54	450	540	F	4^2
8	54	555	680	M	5^2
8	54	400	485	M	4^2
8	54	575	690	M	5^2
8	54	430	530	M	4^2
8	54	540	645	F	5^2
8	54	450	550	F	4^2
8	54	455	550	M	4^2
8	54	505	595	F	5^2
8	54	535	655	M	5^3
8	54	575	695	M	5^2
8	54	470	570	F	4^2
8	54	415	495	M	4^2
8	54	495	595	M	R^2
8	54	465	555	F	5_3
8	55	495	610	M	R^3
8	55	550	650	F	5_2
8	55	425	510	F	4^2
8	55	470	550	M	4^2
8	55	530	655	M	R^2
8	55	515	650	M	5_2
8	55	465	560	M	4^2
8	55	330	400	M	3^2
AUG. 9	55	380	470	M	R^2
9	55	430	520	F	4_2
9	55	500	520	F	5^2
9	55	450	550	F	4^2
9	55	555	680	M	6^2
9	55	505	620	F	5^3_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 9	55	455	570	F	4_2
9	55	470	585	M	4_2
9	55	465	580	M	4_2
9	55	495	605	M	5_2
9	55	510	615	F	5_2
9	55	440	525	M	4_2
9	55	530	655	M	5_2
9	55	530	650	F	5_2
9	55	450	545	F	4_2
9	55	325	380	M	3_2
9	55	340	410	M	3_2
9	56	315	385	M	R_2
9	56	325	395	M	3_2
9	56	340	400	M	3_2
9	56	340	410	M	3_2
9	56	410	485	F	4_2
9	56	425	515	F	4_2
9	56	425	520	M	4_2
9	56	310	370	M	3_2
9	56	320	390	M	3_2
AUG. 10	57	315	380	M	3_2
10	57	445	530	F	4_2
10	57	450	500	M	4_2
10	57	540	655	F	5_2
10	57	560	685	M	5_2
10	57	520	640	F	R_2
10	57	535	655	F	5_2
10	57	525	650	M	5_2
10	57	470	570	M	R_2
AUG. 11	57	310	370	M	3_2
11	57	415	500	F	4_2
11	57	450	550	F	4_2
11	57	540	680	M	5_2
11	57	535	670	M	5_2
11	57	520	655	M	5_2
11	57	420	495	F	4_2
11	57	430	525	F	R_2
11	57	440	540	M	5_3
11	57	320	380	M	3_2
11	57	485	595	M	4_2
11	57	330	390	M	3_2
AUG. 12	57	320	390	M	3_2
12	57	310	375	M	3_2
12	57	320	370	M	3_2
12	57	490	590	F	5_2
12	58	530	650	F	5_2
12	58	490	585	F	5_2
12	58	555	690	M	5_2
12	58	410	485	F	4_2
12	58	560	695	M	5_2
12	58	310	375	M	W_2
12	58	575	700	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 12	58	435	525	F	4_2
12	58	490	580	F	NP
12	58	470	570	F	W
12	58	550	660	F	5_2
12	58	440	540	F	4_2
12	58	405	490	F	4_2
AUG. 13	58	500	625	F	5_2
13	58	545	660	F	5_2
13	58	340	410	M	3_2
13	58	370	445	M	R^2
13	58	450	535	F	4_2
AUG. 14	58	450	550	M	4_2
14	58	530	650	F	5_2
14	58	516	630	F	5_2
14	58	560	685	M	5_2
14	58	580	700	M	R^2
14	58	445	540	M	4_2
14	58	435	520	M	4_2
14	59	540	650	F	5_2
14	59	525	650	M	5_2
14	59	480	590	M	4_2
14	59	465	580	F	R^2
14	59	425	515	F	4_2
14	59	520	645	M	5_2
14	59	540	675	M	R^2
14	59	530	645	M	5_2
14	59	435	520	F	4_2
14	59	510	615	F	5_2
14	59	530	650	F	5_2
14	59	485	595	M	4_2
14	59	520	645	M	5_2
14	59	440	520	M	4_2
14	59	520	640	M	5_2
14	59	530	640	F	5_2
14	59	545	680	M	5_2
14	59	560	670	F	5_2
14	59	530	660	F	5_2
14	59	490	600	F	5_2
14	59	440	540	F	5_2
14	59	470	565	M	4_2
14	59	470	570	M	4_2
AUG. 15	59	550	670	M	5_2
15	59	450	560	F	4_2
15	60	520	630	M	5_2
15	60	530	640	M	5_2
15	60	570	700	M	5_2
15	60	525	640	F	5_2
15	60	535	660	M	5_2
15	60	380	460	M	4_2
15	60	560	685	M	5_2
15	60	430	530	F	4_2
15	60	545	665	M	5_2

Sockeye age, sex and length data.

DATE		SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG.	15	60	470	565	F	R
	15	60	580	710	F	5_2
	15	60	505	600	F	5_2
	15	60	560	680	M	5_2
	15	60	550	675	M	W^2
	15	60	470	580	F	R
	15	60	455	560	F	4_2
	15	60	475	550	F	4_2
	15	60	565	685	M	5_2
	15	60	495	650	M	4_2
	15	60	420	510	M	4_2
	15	60	535	650	F	5_2
	15	60	510	605	F	5_2
	15	60	505	625	F	5_2
	15	60	330	400	M	3_2
	15	60	410	500	F	4_2
	15	61	505	620	F	5_2
	15	61	460	560	F	4_2
	15	61	460	560	M	4_2
AUG.	16	61	540	640	F	5_2
	16	61	530	650	M	5_2
	16	61	540	645	M	5_2
	16	61	540	640	F	5_2
	16	61	440	530	F	4_2
	16	61	455	550	M	4_2
	16	61	480	580	M	4_2
	16	61	565	670	F	R^2
	16	61	485	590	M	5_3
	16	61	545	660	M	5_2
	16	61	540	670	M	5_2
	16	61	430	520	F	4_2
	16	61	520	635	M	5_2
	16	61	510	610	F	R^2
	16	61	330	400	M	3_2
	16	61	480	570	F	5_2
	16	61	460	550	F	4_3
	16	61	510	620	M	5_2
	16	61	435	530	M	R^2
	16	61	550	680	M	5_2
	16	61	535	650	F	R^2
	16	61	560	680	M	5_2
	16	62	460	560	F	4_2
	16	62	475	580	M	4_2
	16	62	530	650	F	5_2
	16	62	540	680	M	5_2
	16	62	530	650	M	4_2
	16	62	550	680	M	5_2
	16	62	480	600	F	5_2
	16	62	590	680	M	5_3
AUG.	17	63	515	645	M	5_2
	17	63	530	650	M	4_2
	17	63	530	640	M	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 17	63	460	560	F	4_2
17	63	380	460	M	4_2
17	63	485	580	F	5_2
17	63	555	665	M	5_2
17	63	470	580	F	5_2
17	63	455	550	F	4_2
17	63	455	550	F	4_2
17	63	455	560	F	4_2
17	63	350	420	M	3_2
AUG. 18	63	490	575	F	4_2
18	63	470	550	F	5_2
18	63	420	510	F	4_3
18	63	500	620	M	5_2
18	63	450	550	F	4_2
18	63	330	400	M	3_2
18	63	355	430	M	3_2
18	63	475	590	F	4_2
18	63	530	650	F	5_2
18	63	560	700	M	5_2
18	63	430	520	F	4_2
18	63	530	640	F	5_2
AUG. 19	63	550	690	M	5_2
19	64	550	680	M	5_2
19	64	530	670	M	5_2
AUG. 20	64	450	550	F	4_2
20	64	525	650	M	5_2
20	64	555	680	M	5_2
20	64	550	660	M	5_2
20	64	545	640	F	5_2
20	64	485	600	F	5_2
20	64	445	530	F	4_2
AUG. 21	64	555	680	M	5_2
21	64	520	630	F	6_3
21	64	520	630	F	5_2
21	64	550	670	F	5_2
21	64	540	670	F	5_2
21	64	480	590	F	5_2
21	64	540	670	M	5_2
21	64	560	660	F	5_2
21	64	455	555	F	4_2
21	64	470	570	F	4_2
21	64	540	670	M	R^2
21	64	535	670	M	5_2
21	64	470	585	M	4_2
21	64	560	690	M	5_2
AUG. 22	64	520	640	M	5_2
22	64	450	540	F	4_2
22	65	540	675	M	5_2
22	65	450	550	F	4_2
22	65	510	640	M	4_2
22	65	505	610	F	5_2
22	65	535	630	F	5_2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 22	65	460	580	M	4_2
22	65	480	585	F	4_2^2
22	65	420	510	F	4_2^2
22	65	500	630	M	R^2
22	65	490	600	F	5_2
22	65	460	560	M	4_2^2
22	65	470	580	F	4_2^2
22	65	440	520	F	4_2^2
22	65	540	630	F	5_2^2
22	65	450	540	M	4_2^2
22	65	520	650	M	5_2^2
22	65	560	685	M	5_2^2
22	65	455	575	M	4_2^2
AUG. 23	66	550	685	M	5_2^2
23	66	310	380	M	3_2^2
23	66	440	540	M	4_2^2
23	66	450	550	F	4_2^2
23	66	515	620	F	4_2^2
23	66	545	645	F	5_2^2
23	66	480	590	M	4_2^2
23	66	440	550	M	4_2^2
23	66	380	480	M	4_2^2
23	66	520	650	F	5_2^2
23	66	450	540	F	4_2^2
23	66	430	530	F	4_2^2
23	66	460	560	F	4_2^2
23	66	440	540	F	4_2^2
23	66	450	560	F	5_2^2
23	66	470	590	M	4_2^2
23	66	460	550	F	4_2^2
23	66	340	420	F	3_2^2
23	66	400	480	F	R^2
23	66	345	405	M	3_2
23	66	300	360	M	3_2^2
AUG. 24	67	540	670	M	5_2^2
24	67	560	700	M	5_2^2
24	67	520	650	M	5_2^2
24	67	550	680	M	5_2^2
24	67	560	675	F	R^2
24	67	530	645	F	R
24	67	515	630	F	5_2
24	67	445	550	F	4_2^2
24	67	530	650	F	5_2^2
24	67	535	650	F	5_2^2
24	67	520	640	F	5_2^2
24	67	565	700	M	5_2^2
24	67	470	570	F	4_2^2
24	67	535	665	M	5_2^2
24	67	520	640	F	5_2^2
AUG. 25	67	430	530	F	4_2^2
25	67	540	670	M	5_2^2
AUG. 26	67	560	680	F	5_2^2

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 26	67	450	550	M	4_2
26	67	515	630	F	5^2_2
26	67	580	705	M	5^2_2
26	67	540	660	M	5^2_2
26	67	540	655	F	5^2_2
26	67	515	635	F	5^2_2
26	67	585	735	M	5^2_2
AUG. 27	68	540	680	M	5^2_2
AUG. 28	68	570	700	M	5^2_2
AUG. 29	68	520	640	M	5^2_2
29	68	510	630	F	5^2_2
29	68	520	640	F	5^2_2
AUG. 30	68	510	640	F	R^2_2
30	68	560	680	M	5_2
30	68	470	570	M	4^2_2
30	68	455	545	F	4^2_2
30	68	515	630	F	5^2_2

APPENDIX 10. Age, length and sex information for Coho salmon sampled from the Skeena River gillnet test fishery, 1987.

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL NOSE FORK LENGTH	LENGTH	SEX	AGE
JULY 22	1	500	615	F	3_2
JULY 23	1	335	420	M	32
JULY 24	1	335	420	M	32
JULY 25	1	340	415	M	32
JULY 26	1	395	485	M	32
26	2	380	460	M	32
26	2	550	690	M	32
26	2	345	435	M	32
JULY 27	3	520	620	F	43
27	3	440	525	M	32
JULY 28	3	490	625	M	32
28	3	420	510	M	32
JULY 29	3	500	610	F	R
29	4	400	520	F	32
29	4	350	440	M	32
JULY 30	4	485	605	M	32
30	4	490	625	M	32
30	4	540	660	M	32
30	5	440	550	M	32
30	5	470	585	M	32
30	5	350	440	M	32
JULY 31	5	585	715	F	43
31	5	400	480	M	32
31	6	380	470	M	32
AUG. 1	6	500	610	M	32
1	6	520	620	F	R
1	6	410	500	M	32
1	6	420	510	M	32
1	7	560	720	M	32
1	7	520	640	F	32
1	7	360	445	M	43
1	7	455	565	M	32
1	7	320	390	M	32
AUG. 2	8	405	500	M	32
2	8	430	530	M	32
2	8	520	660	M	43
2	8	420	530	M	32
2	8	390	470	M	32
2	9	450	550	M	32
AUG. 3	10	455	570	M	32
AUG. 5	10	540	680	M	32
5	10	355	430	M	R
AUG. 6	10	510	625	F	32
6	10	555	695	M	32
6	11	400	480	M	32
AUG. 7	11	540	650	F	32
7	11	520	630	F	32
7	11	395	500	M	32
7	11	540	670	F	32
AUG. 8	12	425	520	M	32
8	12	390	495	M	32
AUG. 10	13	470	580	F	32
10	13	545	685	M	32

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 12	13	535	660	M	32
12	13	550	700	M	32
12	13	525	635	F	R
AUG. 13	14	500	625	M	43
AUG. 14	14	570	685	F	R
14	14	465	575	F	32
14	14	435	545	M	32
AUG. 15	14	520	650	M	32
15	15	410	515	M	32
15	15	430	530	M	R
15	15	490	585	F	32
AUG. 16	15	540	670	M	32
16	15	530	640	F	32
16	16	390	480	M	R
16	16	545	680	F	32
16	16	570	720	M	32
AUG. 17	17	475	600	M	32
17	17	575	700	F	43
AUG. 18	17	360	450	M	32
18	17	380	465	M	32
18	17	425	520	M	R
18	18	550	670	F	32
18	18	525	640	F	32
AUG. 19	18	550	680	F	32
19	18	560	710	M	32
AUG. 20	18	550	670	F	32
AUG. 21	19	610	770	M	32
21	19	520	640	F	32
AUG. 22	19	560	715	M	32
AUG. 23	19	540	650	M	32
AUG. 24	20	450	560	M	32
AUG. 25	20	560	700	M	32
25	20	390	490	M	32
AUG. 26	20	570	690	F	32
26	20	525	630	F	R
26	21	525	660	M	32
26	21	570	720	M	32
26	21	405	500	M	32
SEPT 2	22	560	710	M	32
2	22	550	690	F	32
2	22	540	660	M	32
2	22	540	670	F	R
2	22	530	650	M	43
2	23	600	750	M	32
2	23	610	720	M	32
2	23	580	700	F	32
2	23	550	670	F	32
2	23	630	890	M	32
2	24	520	650	F	43
2	24	410	510	M	32
2	24	410	490	M	43
2	24	320	410	M	32

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
2	24	560	680	M	32
2	25	480	620	M	43
2	25	510	620	M	R

APPENDIX 11. Age, length and sex information for Chum salmon sampled from the Skeena River gillnet test fishery, 1987.

Chum age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 3	1	640	805	M	5
AUG. 5	1	575	710	F	4
AUG. 6	1	710	920	M	5
AUG. 8	1	595	745	F	4
8	1	635	795	F	5
AUG. 9	2	640	815	M	4
AUG. 11	3	520	660	M	4
AUG. 12	3	615	770	F	4
12	3	635	805	M	5
AUG. 13	3	640	820	M	4
AUG. 14	3	580	725	M	4
14	4	565	685	F	4
AUG. 15	4	665	850	M	4
AUG. 16	4	580	715	M	4
16	4	625	780	F	5
16	4	625	810	F	5
16	5	575	720	F	5
16	5	650	820	M	4
AUG. 17	6	640	800	M	5
17	6	670	870	M	4
17	6	605	740	F	4
AUG. 18	6	625	790	M	4
18	6	565	690	F	4
18	7	620	760	F	4
18	7	520	660	M	4
18	7	660	840	M	4
AUG. 19	7	590	755	M	4
19	7	650	830	M	4
AUG. 20	8	610	750	F	4
20	8	590	740	F	4
20	8	660	830	M	4
20	8	670	850	M	4
20	8	700	920	M	5
20	9	670	850	M	4
20	9	560	680	F	4
AUG. 21	9	655	810	F	4
21	9	715	900	M	5
21	9	650	850	M	5
21	10	630	815	M	4
21	10	575	700	F	5
21	10	730	900	M	5
21	10	660	870	M	5
21	10	620	770	F	4
21	11	550	680	F	4
21	11	610	740	F	4
AUG. 22	11	610	770	M	4
22	11	685	900	M	4
22	11	560	700	F	4
AUG. 23	12	600	750	M	4
23	12	510	700	F	4
23	12	550	670	F	4
23	12	550	650	F	3
23	12	670	830	F	4

Chum age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 24	13	590	750	F	4
24	13	640	780	M	4
24	13	670	880	M	4
24	13	620	800	M	4
AUG. 26	13	555	695	F	4
26	14	550	715	M	3
AUG. 27	14	520	670	F	3
27	14	550	680	F	4
27	14	590	725	F	4
AUG. 28	14	610	760	F	4
28	15	600	660	F	4
AUG. 29	15	560	690	F	4
29	15	530	670	F	4
29	15	555	680	M	4
29	15	595	730	F	4
29	16	640	805	M	4
29	16	565	680	F	5
29	16	590	725	F	4
AUG. 30	16	660	850	M	4
30	16	645	850	M	4
30	17	610	765	F	5
AUG. 31	18	590	735	F	4
31	18	600	750	F	4
31	18	680	880	M	4
SEPT 2	18	700	850	M	4
2	18	550	650	F	4

APPENDIX 12. Age, length and sex information for Chinook salmon sampled from the Skeena River gillnet test fishery, 1987.

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 9	1	860	1070	F	R	R
9	1	865	1120	M	R	6_2
9	1	810	1030	F	R	62
9	1	760	940	M	R	62
9	1	665	810	M	R	52
9	2	500	595	F	R	52
9	2	390	465	M	R	R
9	2	705	870	F	R	R
9	2	895	1120	M	R	62
9	2	815	985	F	R	62
JUNE 10	3	935	1190	M	W	R
10	3	705	880	M	R	52
10	3	845	1040	F	W	62
10	3	875	1060	F	W	R
10	3	800	1005	F	W	62
JUNE 11	4	785	975	F	R	62
11	4	775	950	M	R	52
11	4	840	1020	F	R	62
11	4	785	935	F	R	62
11	4	865	1040	F	W	R
11	5	415	510	M	R	42
JUNE 12	5	875	1095	M	W	62
12	5	885	1105	M	W	62
12	5	665	800	F	R	52
12	5	830	965	F	R	62
JUNE 13	6	820	985	M	R	52
13	6	545	670	M	R	52
13	6	585	725	M	R	R
13	6	780	965	F	R	R
13	6	880	990	M	R	52
13	7	770	940	M	R	62
13	7	865	1050	F	R	R
13	7	780	950	F	R	62
13	7	765	935	M	R	52
13	7	445	540	M	W	42
JUNE 14	8	590	725	M	R	42
14	8	480	585	M	R	R
14	8	560	690	M	R	42
14	8	675	830	F	W	52
14	8	800	985	F	R	R
JUNE 15	9	887	1050	M	R	62
15	9	840	1005	F	R	62
15	9	795	935	M	W	52
15	9	745	885	M	W	52
15	9	810	950	F	W	R
15	10	855	1020	M	R	62
15	10	690	835	M	W	R
15	10	825	1000	F	R	R
15	10	785	930	F	R	62
15	10	835	985	F	R	62
JUNE 16	11	625	820	M	R	52
16	11	690	830	M	W	52
16	11	650	780	M	R	62

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 16	11	670	790	M	W	R
16	11	810	950	F	R	62
16	12	720	840	F	R	52
16	12	735	890	F	R	52
16	12	865	1040	F	R	62
16	12	850	1010	F	R	R
16	12	305	385	M	R	32
JUNE 17	13	690	845	M	R	62
17	13	830	985	F	R	R
17	13	820	970	F	R	62
17	13	910	1125	M	R	62
17	13	835	1010	F	R	62
17	14	515	620	M	R	R
17	14	790	950	F	R	62
17	14	720	890	F	R	52
17	14	850	1015	F	R	62
JUNE 18	14	890	1090	M	R	62
18	15	780	930	F	R	52
18	15	820	985	F	R	62
18	15	810	940	F	R	62
18	15	800	950	F	R	52
18	15	815	975	F	R	R
18	16	705	820	F	R	41
18	16	760	910	F	R	62
18	16	850	1025	M	R	62
18	16	800	960	F	R	62
JUNE 19	16	810	965	F	R	62
19	17	860	1025	F	R	62
19	17	940	1150	M	W	62
19	17	830	980	F	R	62
19	17	715	840	F	R	R
19	17	685	800	M	R	52
19	18	820	960	F	W	62
19	18	870	1020	F	R	62
19	18	720	850	M	R	R
19	18	950	1080	F	R	62
JUNE 20	18	830	1010	M	R	R
20	19	725	820	M	R	41
20	19	770	890	M	R	R
20	19	710	840	F	R	52
20	19	705	850	M	W	52
20	19	625	740	M	R	52
20	20	905	1130	M	R	62
20	20	880	1120	M	R	62
20	20	870	1010	M	R	51
20	20	860	1050	F	R	R
JUNE 21	20	945	1040	M	W	62
21	21	610	730	M	W	42
21	21	760	900	F	R	R
21	21	740	890	M	R	52
21	21	835	1030	F	R	R
21	21	320	385	M	W	R

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 21	22	710	890	F	R	52
21	22	615	760	M	R	52
21	23	925	1150	M	W	62
21	23	745	885	M	R	52
JUNE 22	23	780	915	M	R	R
22	23	790	930	M	R	52
22	23	810	950	F	R	62
22	24	830	990	F	W	62
22	24	850	1015	F	R	62
22	24	865	1010	F	R	51
22	24	830	1000	F	R	62
22	24	950	1150	M	R	62
22	25	780	920	F	R	52
22	25	835	985	F	R	62
JUNE 23	25	805	950	F	R	62
23	25	755	900	M	R	R
23	25	800	940	F	R	62
23	26	890	1055	F	R	62
23	26	875	1040	M	R	62
23	26	875	1050	M	R	52
23	26	490	600	M	R	42
23	26	735	900	M	R	62
23	27	870	1080	M	W	62
23	27	860	1040	M	R	62
JUNE 24	27	860	1080	M	W	62
24	27	775	920	F	R	52
24	27	790	930	F	W	62
24	28	795	950	F	R	62
24	28	780	930	F	R	62
24	28	690	920	F	R	62
24	28	830	970	M	R	62
24	28	740	870	F	R	R
24	29	535	640	M	R	42
24	29	410	495	M	R	42
JUNE 25	29	680	825	M	W	52
25	29	570	655	M	R	42
25	29	730	890	F	R	52
25	30	780	930	M	R	R
25	30	590	705	M	R	42
25	30	820	970	M	R	R
25	30	595	720	M	R	42
25	30	760	920	M	R	52
25	31	790	950	F	R	R
25	31	840	1000	F	R	R
JUNE 26	31	640	785	M	R	52
26	31	765	920	M	R	62
26	31	795	950	F	R	52
26	32	780	940	F	R	52
26	32	835	1010	F	R	62
26	32	740	870	F	R	52
26	32	870	1060	M	R	R
26	32	800	945	F	R	52

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 26	33	810	965	F	R	62
26	33	820	1000	F	W	62
JUNE 27	33	870	1080	F	W	62
27	33	875	1105	M	R	62
27	33	820	980	F	R	52
27	34	685	835	M	R	52
27	34	950	1180	M	R	R
27	34	955	1200	M	R	R
27	34	810	955	F	R	52
27	34	750	885	F	R	R
27	35	785	920	F	R	62
27	35	775	930	M	R	62
JUNE 28	35	730	875	F	R	52
28	35	820	980	F	R	62
28	35	835	1020	M	R	62
28	36	760	900	M	R	R
28	36	835	1015	F	R	R
28	36	900	1090	M	R	62
28	36	770	940	M	R	62
28	36	740	900	F	R	52
28	37	710	360	M	R	R
28	37	810	960	F	R	62
JUNE 29	38	800	975	M	R	62
29	38	850	1030	F	W	62
29	38	810	970	F	R	62
29	38	835	980	F	R	R
29	38	760	930	M	R	R
29	39	850	960	F	R	62
JUNE 30	39	820	1015	M	R	62
30	39	750	930	F	R	R
30	39	895	1140	M	R	62
30	39	920	1135	M	R	62
30	40	910	1140	M	W	62
30	40	740	940	M	W	52
30	40	855	1025	F	R	R
30	40	565	680	M	R	31
30	40	350	435	M	R	21
JULY 1	41	835	1010	F	R	62
1	41	810	990	F	R	62
1	41	825	1000	F	R	62
1	41	845	1050	F	W	R
1	41	710	880	M	R	52
1	42	760	900	F	R	62
1	42	830	1000	F	R	62
JULY 2	42	550	680	M	R	42
2	42	730	900	M	R	52
2	42	860	1030	F	R	62
2	43	830	1050	M	W	62
2	43	785	970	M	R	R
2	43	905	1105	F	R	62
2	43	855	1020	F	R	62
2	43	860	1070	M	R	R

Chinook age, sex and length data.

DATE		SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY	2	44	900	1075	F	R	62
	2	44	735	880	M	R	52
JULY	3	44	310	390	M	R	32
	3	44	345	420	M	W	32
	3	44	920	1130	F	W	62
	3	45	740	910	M	R	52
	3	45	780	950	F	W	51
	3	45	620	760	M	R	42
	3	45	790	960	M	R	52
	3	45	530	660	M	R	42
	3	46	760	930	F	R	62
	3	46	935	1140	F	W	62
JULY	4	46	740	910	M	R	R
	4	46	740	900	M	R	R
	4	46	700	870	M	R	R
	4	47	660	790	M	R	52
	4	47	725	920	F	R	62
	4	47	735	890	M	R	52
	4	47	825	1020	F	R	62
	4	47	760	910	F	R	R
	4	48	745	925	M	R	R
	4	48	730	935	M	R	52
JULY	5	48	745	910	M	W	62
	5	48	730	880	F	R	62
	5	48	755	910	F	R	52
	5	49	930	1135	F	R	62
	5	49	990	1220	M	W	R
	5	49	755	890	M	R	52
	5	49	730	890	F	R	52
	5	49	610	750	M	R	R
	5	50	830	1020	M	R	62
	5	50	820	1000	F	W	62
JULY	6	51	690	840	M	R	R
	6	51	880	1060	M	R	62
	6	51	855	1040	F	R	62
	6	51	760	920	F	R	R
	6	51	730	885	F	R	62
	6	52	820	985	F	R	R
	6	52	700	850	F	R	52
	6	52	740	890	F	R	52
	6	52	845	1090	M	W	52
	6	52	920	1190	M	W	52
JULY	7	53	685	840	M	W	R
	7	53	870	1050	M	R	52
	7	53	930	1130	F	R	62
	7	53	710	860	M	R	52
	7	53	720	870	F	R	52
	7	54	740	900	F	R	52
	7	54	985	1240	M	W	62
	7	54	950	1190	M	R	62
	7	54	820	1000	M	R	62
	7	54	890	1050	F	R	62

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY 8	55	370	450	M	W	32
8	55	265	330	M	R	32
8	55	875	1080	F	R	62
8	55	535	650	M	R	42
8	55	780	950	M	R	R
JULY 9	56	525	640	M	R	42
9	56	340	415	M	R	32
9	56	830	1025	F	R	62
9	56	970	1230	M	W	R
9	56	990	1280	M	W	R
JULY 10	57	370	450	M	R	R
10	57	330	395	M	R	32
10	57	650	790	F	R	52
10	57	730	890	F	R	52
10	57	840	1055	M	W	52
JULY 11	58	945	1130	F	R	62
11	58	700	850	M	W	R
11	58	910	1135	M	W	62
11	58	300	360	M	R	R
11	58	540	660	M	R	42
JULY 12	59	320	385	M	W	21
12	59	460	570	M	R	R
12	59	990	1280	M	R	62
12	59	800	970	F	R	62
12	59	835	1005	M	R	62
JULY 13	60	350	425	M	R	32
13	60	325	400	M	R	32
13	60	640	780	F	R	52
13	60	860	1060	F	R	62
13	60	750	930	M	W	52
JULY 14	61	330	400	M	R	32
14	61	310	390	M	R	32
14	61	800	970	F	R	62
14	61	770	930	F	R	R
14	61	770	940	F	R	62
JULY 15	62	815	1000	F	W	62
15	62	770	950	F	R	52
15	62	330	390	M	R	32
15	62	475	580	M	R	42
15	62	860	1060	F	W	62
JULY 16	63	780	950	F	R	52
16	63	355	430	M	R	32
16	63	740	915	F	R	52
16	63	950	1145	F	R	62
16	63	710	880	M	R	52
JULY 17	64	410	495	M	R	32
17	64	575	710	M	R	42
17	64	530	645	M	R	42
17	64	600	720	F	R	R
17	64	755	950	F	R	52
JULY 18	65	870	1100	M	R	R
18	65	905	1110	F	R	R

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY 18	65	755	910	F	R	52
18	65	520	630	M	W	42
18	65	910	1130	M	R	R
JULY 19	66	705	900	M	R	52
19	66	675	885	F	R	52
19	66	875	1100	M	R	62
19	66	585	725	M	R	42
19	66	400	495	M	R	42
JULY 20	67	830	1010	F	R	62
20	67	450	550	M	R	42
20	67	850	1050	F	W	62
20	67	850	1060	M	R	R
20	67	860	1075	F	R	62
JULY 21	68	350	410	M	R	32
21	68	840	1010	F	R	62
21	68	600	750	M	R	42
21	68	860	1050	F	W	62
21	68	875	1060	M	R	R
JULY 22	69	900	1100	M	R	R
22	69	750	910	F	R	52
22	69	700	830	F	R	52
22	69	880	1080	M	R	52
22	69	820	1010	F	R	62
JULY 23	70	725	905	M	R	R
23	70	815	990	F	R	62
23	70	850	1070	F	R	62
23	70	730	900	F	R	62
23	70	750	930	M	R	52
JULY 24	71	730	890	F	R	52
24	71	540	670	M	R	42
24	71	545	660	M	R	42
24	71	775	950	F	R	62
24	71	340	410	M	R	R
JULY 25	72	710	870	F	R	52
25	72	495	620	M	R	42
25	72	350	420	M	R	32
25	72	785	965	F	R	62
25	72	810	1005	M	R	R
JULY 26	73	960	1230	M	W	62
26	73	330	410	M	R	32
26	73	470	580	M	R	42
26	73	310	385	M	W	32
26	73	410	510	M	R	R
JULY 27	74	760	930	F	R	R
27	74	290	365	M	R	32
JULY 28	74	510	625	M	R	R
28	74	535	665	M	R	42
JULY 29	74	640	800	F	R	52
29	75	775	960	M	W	52
29	75	810	1005	M	R	R
29	75	710	865	M	R	52
29	75	620	770	M	R	42

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY 30	75	720	875	F	R	41
30	76	355	440	M	R	R
30	76	420	520	M	R	42
JULY 31	76	530	650	M	R	42
31	76	560	680	M	R	42
31	76	280	350	M	R	32
31	77	710	875	F	R	R
31	77	580	720	M	R	R
AUG. 1	77	520	630	M	R	R
1	77	570	690	M	R	R
1	77	750	900	F	R	R
1	78	355	440	M	R	R
AUG. 2	78	755	920	M	R	52
2	78	650	810	M	R	42
AUG. 3	79	780	950	F	R	62
AUG. 4	79	920	1120	M	R	62
AUG. 7	79	710	870	F	R	52
7	79	685	830	M	R	52
AUG. 8	79	835	1060	M	R	62
8	80	735	910	F	R	52

APPENDIX 13. Age, length and sex information for Steelhead trout sampled from the Skeena River gillnet test fishery, 1987.

Steelhead age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 6	1	590	720	F	R
JULY 9	1	640	770	M	3
9	1	710	870	M	4
9	1	680	840	M	4
JULY 12	1	715	880	F	3
12	2	760	960	M	R
JULY 13	3	610	750	F	32
JULY 17	3	560	690	M	1
17	3	525	645	F	3
17	3	520	640	F	31
JULY 18	3	765	920	F	R
18	4	715	865	M	3
JULY 19	4	675	870	M	3
JULY 20	5	540	645	F	3
JULY 23	5	700	855	F	3
23	5	575	690	F	3
23	5	450	550	F	4
JULY 25	5	640	765	F	4
25	6	590	725	M	3
JULY 27	7	590	725	M	3
JULY 29	7	495	610	F	3
JULY 31	7	640	780	M	3
31	7	675	815	M	R
31	7	710	860	M	R
AUG. 1	8	620	750	F	4
1	8	585	700	F	2
1	8	470	570	M	4
AUG. 2	8	460	570	M	R
AUG. 5	9	520	650	M	R
5	9	425	535	M	R
AUG. 6	9	715	880	F	R
AUG. 7	9	735	910	M	R
7	9	540	675	M	31
7	10	640	810	F	R
7	10	550	680	F	3
7	10	465	570	M	3
7	10	635	785	F	32
AUG. 8	10	775	985	M	3
8	11	735	910	M	31
8	11	645	790	F	3
8	11	570	715	F	3
8	11	515	640	M	R
8	11	600	750	M	3
8	12	595	725	F	41
8	12	395	495	F	1
AUG. 9	12	625	755	F	R
AUG. 12	13	575	690	F	4
AUG. 13	13	605	740	F	3
AUG. 14	13	660	820	M	3
14	13	690	835	F	3
AUG. 15	13	705	840	F	R
15	14	540	665	F	31
15	14	610	735	F	R

Steelhead age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 15	14	630	765	F	3
15	14	660	800	F	3
15	14	590	715	F	4
15	15	650	795	M	R
AUG. 16	15	700	880	M	3
16	15	735	905	M	3
16	15	690	845	F	32
16	15	670	805	F	3
16	16	630	790	F	3
16	16	575	725	F	3
16	16	735	915	M	3
16	16	595	725	F	3
16	16	730	890	F	3
16	17	565	690	F	1
AUG. 18	18	625	775	M	32
AUG. 20	18	550	670	F	3
AUG. 21	18	730	920	M	33
21	18	750	930	M	32
21	18	655	820	M	4
21	19	620	765	F	32
21	19	735	920	M	R
AUG. 22	19	650	815	M	R
22	19	550	670	F	2
22	19	630	780	F	3
AUG. 23	20	590	730	F	4
23	20	640	790	F	32
AUG. 25	21	550	670	F	4
AUG. 27	21	700	865	F	5
AUG. 29	21	650	785	M	R
SEPT 2	22	580	705	F	4
2	22	690	825	F	32
2	22	715	900	M	R
2	22	675	840	M	3

APPENDIX 14. Length and sex information for Pink salmon sampled from the Skeena River gillnet test fishery, 1987.

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
JULY 21	460	M
	500	F
	540	M
	540	M
	550	M
	560	F
	560	M
	560	M
	570	M
	580	M
JULY 22	440	F
	450	M
	470	F
	510	M
	510	F
	520	F
	520	F
	520	M
	530	M
	530	M
	560	M
	580	M
	580	M
	580	M
	580	M
	600	M
	620	M
JULY 23	460	F
	460	F
	470	F
	470	M
	480	F
	490	F
	490	F
	490	F
	500	F
	500	F
	500	F
	500	F
	510	F
	520	F
	520	M
	530	F
	530	M
	540	M
	560	M
	560	M
	560	M
	580	M
	580	M
	610	M
	610	M
JULY 24	470	F

DATE	NOSE FORK LENGTH	SEX
JULY 24	480	M
	520	F
	520	F
	520	F
	530	F
	530	F
	530	F
	530	F
	530	F
	530	M
	540	M
	540	M
	560	M
	560	M
	560	M
	560	M
	560	M
	570	M
	570	M
	570	M
	580	F
	580	M
	590	M
	590	M
	600	F
	620	M
	620	M
	630	M
	670	M
JULY 25	500	F
	500	M
	500	M
	510	F
	510	M
	520	F
	530	M
	530	M
	540	F
	540	F
	540	M
	540	M
	540	M
	550	F
	550	M
	560	F
	560	M
	570	M
	570	M
	570	F
	570	F
	580	M
	590	M
	610	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
JULY 25	630	M
JULY 26	370	M
	460	F
	480	F
	490	F
	490	F
	500	F
	510	F
	510	M
	510	M
	520	F
	520	F
	530	F
	530	F
	530	F
	530	M
	530	M
	540	F
	540	F
	560	M
	560	M
	560	M
	570	M
	570	M
	570	M
	580	M
	620	M
JULY 27	470	M
	480	F
	490	F
	500	M
	510	F
	510	M
	520	F
	520	F
	520	M
	520	M
	530	F
	530	M
	530	M
	530	M
	530	M
	530	M
	540	F
	540	F
	560	M
	560	M
	570	M
	570	M
	580	F
	580	M
	620	M

DATE	NOSE FORK LENGTH	SEX
JULY 28	440	F
	460	M
	510	F
	510	M
	520	F
	520	F
	520	F
	520	F
	530	F
	530	M
	530	M
	530	M
	540	M
	550	F
	550	M
	560	M
	560	M
	560	M
	560	M
	570	F
	570	M
	570	M
	570	M
	570	M
	570	M
	590	M
	600	M
JULY 29	440	F
	460	F
	460	F
	490	F
	500	F
	520	F
	520	F
	520	M
	530	F
	530	M
	530	M
	530	M
	540	F
	540	F
	540	M
	550	M
	560	M
	580	M
	580	M
	580	M
	580	M
	590	M
	590	M
	590	M
	600	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
JULY 30	450	F
	510	F
	510	M
	520	F
	520	M
	520	M
	520	M
	530	F
	530	M
	530	M
	540	F
	540	F
	540	M
	540	M
	550	F
	550	F
	550	F
	550	F
	550	F
	570	F
	570	M
	590	M
	600	M
	610	M
JULY 31	480	F
	490	F
	500	F
	510	M
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	530	F
	530	F
	530	F
	530	F
	530	M
	530	M
	540	F
	540	F
	540	M
	550	M
	560	F
	580	M
	590	M
	630	M
	650	M
AUG. 1	490	F
	500	F
	500	M
AUG. 1	520	M
	520	M
	530	F
	530	F
	530	F
	530	M
	540	F
	540	F
	540	M
	550	F
	550	M
	560	M
	570	M
	580	M
	590	M
	590	M
	590	M
	590	M
	610	M
	610	M
	610	M
AUG. 2	480	F
	510	M
	510	M
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	530	M
	540	F
	540	M
	540	M
	540	M
	550	F
	550	M
	550	M
	560	M
	560	M
	560	M
	560	M
	560	M
	570	M
	570	M
	570	M
	580	M
AUG. 3	450	F
	500	F
	500	F
	500	M
	510	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG. 3	510	F
	510	F
	510	F
	520	F
	520	F
	520	F
	520	M
	530	F
	530	F
	540	F
	540	F
	550	M
	550	M
	560	M
	570	M
	570	M
	570	M
	580	M
	590	M
	600	M
AUG. 4	480	F
	480	F
	480	M
	490	F
	500	F
	500	F
	500	M
	500	M
	510	F
	520	M
	520	M
	520	M
	530	F
	530	F
	530	M
	530	M
	530	M
	550	F
	550	M
	550	M
	550	M
	560	M
	560	M
	570	M
	590	M
AUG. 5	490	F
	500	F
	500	M
	510	F
	510	F
	510	F
	510	M

DATE	NOSE FORK LENGTH	SEX
AUG. 5	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	530	F
	530	M
	540	F
	540	F
	540	F
	540	M
	550	M
	550	M
	610	M
AUG. 6	470	M
	470	M
	480	M
	490	F
	490	F
	490	M
	500	F
	500	F
	500	F
	500	F
	500	M
	510	F
	510	F
	510	M
	520	F
	520	M
	520	M
	540	F
	540	F
	540	F
	550	M
	560	M
	560	M
	570	M
	590	M
	490	F
	490	F
	490	F
	490	M
	500	F
	500	F
	510	F
	510	F
	510	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG. 7	510	M
	520	F
	520	M
	530	F
	530	F
	530	F
	530	M
	540	F
	540	F
	540	M
	540	M
	550	M
	560	M
	570	M
	590	M
	600	M
AUG. 8	480	M
	490	M
	500	M
	500	M
	510	F
	510	F
	510	F
	520	F
	520	F
	520	F
	520	M
	520	M
	520	M
	530	M
	540	F
	540	M
	550	F
	550	M
	550	M
	550	M
	550	M
	560	M
	570	M
	570	M
	580	M
AUG. 9	490	F
	490	F
	500	F
	500	F
	500	M
	500	M
	510	M
	520	F
	520	F
	520	M
	520	M

DATE	NOSE FORK LENGTH	SEX
AUG. 9	530	F
	530	F
	540	F
	540	F
	540	M
	550	F
	560	F
	560	M
	570	M
	580	M
	600	M
	600	M
	610	M
AUG. 10	500	F
	510	F
	510	F
	520	F
	520	M
	520	M
	520	M
	530	F
	530	F
	540	F
	540	F
	540	F
	540	F
	540	F
	540	M
	540	M
	540	M
	550	M
	560	M
	570	M
	590	M
	590	M
	590	M
	590	M
	600	M
AUG. 11	460	F
	490	F
	490	F
	510	F
	520	M
	530	F
	530	F
	530	F
	530	F
	530	F
	530	F
	530	F
	530	M
	540	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG. 11	540	M
	550	F
	550	M
	550	M
	550	M
	560	M
	570	F
	580	M
	580	M
	580	M
	590	M
	620	M
AUG. 12	480	F
	490	F
	490	F
	490	M
	510	F
	510	F
	520	F
	520	F
	520	F
	520	F
	520	F
	520	F
	530	F
	530	F
	530	F
	530	F
	530	M
	530	M
	550	F
	550	F
	560	F
	560	M
	570	F
	580	M
AUG. 13	480	F
	510	F
	510	M
	520	F
	520	M
	550	F
	550	M
	550	M
	550	M
	550	M
	560	F
	570	M
	580	M
	580	M
	580	M

DATE	NOSE FORK LENGTH	SEX
AUG. 14	440	M
	460	F
	480	F
	490	F
	500	F
	510	F
	510	M
	520	F
	520	M
	520	M
	530	F
	530	F
	530	F
	530	M
	540	F
	540	F
	540	F
	540	M
	550	F
	550	F
	560	F
	560	M
	600	M
	610	M
	620	M
AUG. 15	490	F
	490	F
	490	F
	510	F
	510	F
	510	F
	510	M
	520	F
	520	F
	520	M
	540	F
	540	F
	540	F
	540	F
	540	F
	540	M
	540	M
	540	M
	550	F
	560	M
	560	M
	570	M
	580	M
	580	M
	590	F
	590	M
AUG. 16	500	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG 16	520	F
	520	F
	530	F
	530	F
	540	F
	540	F
	540	M
	550	F
	550	F
	550	M
	550	M
	550	M
	560	F
	560	M
	570	M
	580	F
	580	M
	580	M
	580	M
	580	M
	580	M
	590	M
	600	M
	610	M
AUG. 17	480	F
	480	F
	510	F
	520	F
	520	F
	520	F
	520	F
	530	F
	530	F
	530	F
	530	F
	540	F
	540	M
	550	F
	550	M
	550	M
	550	M
	550	M
	560	M
	570	M
	580	M
	580	M
	580	M
	600	M
AUG. 18	510	F
	520	F
	520	M

DATE	NOSE FORK LENGTH	SEX
AUG. 18	530	F
	530	F
	530	F
	530	M
	540	M
	540	M
	550	F
	550	F
	550	F
	550	F
	550	M
	550	M
	550	M
	560	F
	560	F
	560	M
	580	M
	590	M
	590	M
	600	M
	610	M
	610	M
AUG. 19	520	F
	520	F
	520	F
	520	F
	540	F
	540	F
	540	F
	550	M
	550	M
	560	F
	560	M
	560	M
	560	M
	570	M
	570	M
	570	M
	570	M
	570	M
	580	M
	580	M
	580	M
	600	M
	600	M
	620	M
AUG. 20	510	F
	520	F
	520	M
	520	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG. 20	530	F
	540	F
	540	F
	540	F
	540	F
	540	F
	540	F
	540	M
	540	M
	540	M
	550	F
	560	M
	560	M
	570	M
	570	M
	580	M
	590	M
	610	M
	610	M
	630	M
AUG. 21	510	F
	510	F
	520	F
	520	F
	520	F
	520	F
	530	F
	530	F
	540	F
	540	F
	540	M
	550	F
	550	M
	550	M
	560	M
	580	M
	580	M
	580	M
	580	M
	590	M
	600	M
	600	M
	610	M
	610	M
	620	M
AUG. 22	490	F
	490	F
	510	F
	510	F
	520	F
	520	F
	520	F

DATE	NOSE FORK LENGTH	SEX
AUG. 22	530	F
	530	F
	530	F
	530	F
	540	F
	540	M
	550	F
	550	M
	550	M
	550	M
	570	M
	570	M
	570	M
	580	M
	590	M
	600	M
	600	M
	620	M
AUG. 23	510	F
	520	M
	530	F
	530	F
	530	F
	530	F
	530	M
	540	F
	540	F
	540	M
	540	M
	550	F
	550	M
	580	M
	580	M
	580	M
	590	M
	590	M
	590	M
	600	M
	600	M
	600	M
	600	M
	600	M
	610	M
AUG. 24	470	F
	510	F
	520	F
	520	F
	520	F
	520	F
	520	M
	530	M
	540	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX
AUG. 24	540	F
	540	M
	540	M
	550	F
	550	F
	550	M
	560	F
	560	M
	580	M
	580	M
	580	M
	580	M
	590	M
AUG. 25	540	M
	550	M
	560	M
	560	M
	570	M
	580	M
AUG. 26	520	F
	520	F
	530	F
	530	F
	530	M
	540	M
	540	M
	540	M
	540	M
	550	M
	550	M
	560	M
	570	M
	580	M
	580	M
	580	M
	590	M
	590	M
	600	M
	600	M
	600	M
	610	M
	610	M
	620	M
	620	M
AUG. 27	470	F
	500	F
	530	F
	540	F
	560	F
	570	M
	570	M
	570	M
AUG. 27	580	M
	610	M
	620	M
	620	M
AUG. 28	560	M
	580	F
AUG. 29	530	M
	530	M
	540	F
	560	F
AUG. 30	550	F
SEPT 2	490	F
	510	F
	520	F
	520	F
	520	M
	530	M
	530	M
	540	M
	540	M
	550	M
	560	F
	570	M
	580	M
	580	M
	580	M
	590	M
	590	M
	590	M
	590	M
	600	M
	600	M
	610	M
	610	M
	610	M
	620	M
	620	M
	640	M